IDAHO ADMINISTRATIVE BULLETIN

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Preface

The Idaho Administrative Bulletin is published once each month by the Department of Administration, Office of the Administrative Rules Coordinator, pursuant to Section 67-5203, Idaho Code. The Bulletin is a monthly compilation of all administrative rule-making documents in Idaho. The Bulletin publishes the official rulemaking notices and administrative rule text of state agency rulemakings and other official documents as necessary.

State agencies are required to provide public notice of rulemaking activity and invite public input. The public receives notice of rulemaking activity through the Idaho Administrative Bulletin and the Legal Notice published monthly in local newspapers. The Legal Notice provides reasonable opportunity for public input, either oral or written, which may be presented to the agency within the time and manner specified in the Rulemaking Notice published in the Bulletin. After the comment period closes, the agency considers fully all information submitted in regard to the rule. Comment periods are not provided in temporary or final rule-making activities.

CITATION TO THE IDAHO ADMINISTRATIVE BULLETIN

The Bulletin is cited by year and issue number. For example, Bulletin 05-1 refers to the first Bulletin issued in calendar year 2005; Bulletin 06-1 refers to the first Bulletin issued in calendar year 2006. Volume numbers, which proceed from 1 to 12 in a given year, correspond to the months of publication, i.e.; Volume No. 05-1 refers to January 2005; Volume No. 05-2 refers to February 2005; and so forth. Example: The Bulletin published in January of 2006 is cited as Volume 06-1. The December 2005 Bulletin is cited as Volume 05-12.

RELATIONSHIP TO THE IDAHO ADMINISTRATIVE CODE

The Idaho Administrative Code is published once a year and is a compilation or supplemental compilation of all final and enforceable administrative rules in effect in Idaho. In an effort to provide the reader with current, enforceable rules, temporary rules are also published in the Administrative Code. Temporary rules and final rules that have been approved by the legislature during the legislative session, and published in the monthly Idaho Administrative Bulletin, supplement the Administrative Code. Negotiated, proposed, and pending rules are not printed in the Administrative Code and are published only in the Bulletin.

To determine if a particular rule remains in effect, or to determine if a change has occurred, the reader should refer to the **Cumulative Rulemaking Index of Idaho Administrative Rules**, printed in each Bulletin.

TYPES OF RULEMAKINGS PUBLISHED IN THE ADMINISTRATIVE BULLETIN

The state of Idaho administrative rulemaking process, governed by the Administrative Procedure Act, Title 67, Chapter 52, Idaho Code, comprises five distinct activities: negotiated, proposed, temporary, pending and final rulemaking. Not all rulemakings involve all five. At a minimum, a rulemaking includes proposed, pending and final rulemaking. Many rules are adopted as temporary rules when they meet the required statutory criteria and agencies often engage in negotiated rulemaking at the beginning of the process to facilitate consensus building in controversial or complex rulemakings. In the majority of cases, the process begins with proposed rulemaking and ends with the final rulemaking. The following is a brief explanation of each type of administrative rule.

NEGOTIATED RULEMAKING

Negotiated rulemaking is a process in which all interested parties and the agency seek consensus on the content of a rule. Agencies are encouraged, and in some cases required, to engage in this rulemaking activity whenever it is feasible to do so. Publication of a "Notice of Intent to Promulgate" a rule in the Administrative Bulletin by the agency is optional. This process should result in the formulation of a proposed and/or temporary rule.

PROPOSED RULEMAKING

A proposed rulemaking is an action by an agency wherein the agency is proposing to amend or repeal an existing rule or to adopt a new rule. Prior to the adoption, amendment, or repeal of a rule, the agency must publish a "Notice of Proposed Rulemaking" in the Bulletin. This notice must include:

- a) the specific statutory authority (from Idaho Code) for the rulemaking including a citation to a specific federal statute or regulation if that is the basis of authority or requirement for the rulemaking;
- b) a statement in nontechnical language of the substance of the proposed rule, including a specific description of any fee or charge imposed or increased;
- *c) the text of the proposed rule prepared in legislative format;*
- d) the location, date, and time of any public hearings the agency intends to hold on the proposed rule;
- e) the manner in which persons may make written comments on the proposed rule, including the name and address of a person in the agency to whom comments on the proposal may be sent;
- f) the manner in which persons may request an opportunity for an oral presentation as provided in Section 67-5222, Idaho Code; and
- g) the deadline for public (written) comments on the proposed rule.

As stated, the text of the proposed rule must be published in the Bulletin. After meeting the statutory rulemaking criteria for a proposed rule, the agency may proceed to the pending rule stage. A proposed rule does not have an assigned effective date unless published in conjunction with a temporary rule. An agency may vacate a proposed rulemaking if it decides not to proceed further with the promulgation process.

TEMPORARY RULEMAKING

Temporary rules may be adopted only when the governor finds that it is necessary for:

- a) protection of the public health, safety, or welfare; or
- b) compliance with deadlines in amendments to governing law or federal programs; or
- c) conferring a benefit;

If a rulemaking meets any one or all of the above requirements, a rule may become effective before it has been submitted to the legislature for review and the agency may proceed and adopt a temporary rule. However, a temporary rule that imposes a fee or charge may be adopted only if the Governor finds that the fee or charge is necessary to avoid an immediate danger which justifies the imposition of the fee or charge.

A temporary rule expires at the conclusion of the next succeeding regular legislative session unless the rule is approved, amended, or modified by concurrent resolution or when the rule has been replaced by a final rule.

State law required that the text of both a proposed rule and a temporary rule be published in the Administrative Bulletin. In cases where the text of the temporary rule is the same as the proposed rule, the rulemaking can be done concurrently as a proposed/temporary rule. Combining the rulemaking allows for a single publication of the text.

An agency may, at any time, rescind a temporary rule that has been adopted and is in effect. If the temporary rule is being replaced by a new temporary rule or if it has been published concurrently with a proposed rulemaking that is being vacated, the agency, in most instances, should rescind the temporary rule.

PENDING RULEMAKING

A pending rule is a rule that has been adopted by an agency under regular rulemaking procedures and remains subject to legislative review before it become a final, enforceable rule.

When a pending rule is published in the Bulletin, the agency is required to include certain information in the "Notice of Pending Rulemaking". This includes:

- a) a statement giving the reasons for adopting the rule;
- b) a statement of any change between the text of the proposed rule and the pending rule with an explanation of the reasons for any changes;
- c) the date the pending rule will become final and effective;
- d) an identification of any portion of the rule imposing or increasing a fee or charge.

Agencies are required to republish the text of the rule when substantive changes have been made to the proposed rule. An agency may adopt a pending rule that varies in content from that which was originally proposed if the subject matter of the rule remains the same, the pending rule change is a logical outgrowth of the proposed rule, and the original notice was written so as to assure that members of the public were reasonably notified of the subject. It is not always necessary to republish all the text of the pending rule. With the permission of the Rules Coordinator, only the Section(s) that have changed from the proposed text are republished. If no changes have been made to the previously published text, it is not required to republish the text again and only the "Notice of Pending Rulemaking" is published.

FINAL RULEMAKING

A final rule is a rule that has been adopted by an agency under the regular rulemaking procedures and is in effect and enforceable.

No pending rule adopted by an agency will become final and effective until it has been submitted to the legislature for review. Where the legislature finds that an agency has violated the legislative intent of the statute under which the rule was made, a concurrent resolution may be adopted to reject the rulemaking or any part thereof. A "Notice of Final Rule" must be published in the Bulletin for any rule that is rejected, amended, or modified by the legislature showing the changes made. A rule that has been reviewed by the legislature and has not been rejected, amended or modified will become final with no further legislative action. No rule shall become final and effective before the conclusion of the regular or special legislative session at which the rule was submitted for review. However, a rule that is final and effective may be applied retroactively, as provided in the rule.

AVAILABILITY OF THE ADMINISTRATIVE CODE AND BULLETIN

The Idaho Administrative Code and all monthly Bulletins are available for viewing and use by the public in all 44 county law libraries, state university and college and community college libraries, the state law library, the state library, the Public Libraries in Boise, Pocatello, Idaho Falls, Twin Falls, Lewiston and East Bonner County Library.

SUBSCRIPTIONS AND DISTRIBUTION

For subscription information and costs of publications, please contact the Department of Administration, Office of the Administrative Rules Coordinator, 650 W. State Street, Room 100, Boise, Idaho 83720-00306, telephone (208) 332-1820.

The Idaho Administrative Bulletin is an official monthly publication of the State of Idaho. Yearly subscriptions or individual copies are available for purchase.

The Idaho Administrative Code, is an annual compilation or supplemental compilation of all final and enforceable temporary administrative rules and includes tables of contents, reference guides, and a subject index.

Individual Rule Chapters and Individual RuleMaking Dockets, are specific portions of the Bulletin and Administrative Code produced on demand.

Internet Access - The Administrative Code and Administrative Bulletin are available on the Internet at the following address: http://adm.idaho.gov/adminrules/

HOW TO USE THE IDAHO ADMINISTRATIVE BULLETIN

Rulemaking documents produced by state agencies and published in the Idaho Administrative Bulletin are organized by a numbering system. Each state agency has a two-digit identification code number known as the "IDAPA" number. (The "IDAPA" Codes are listed in the alphabetical/numerical index at the end of this Preface.) Within each agency there are divisions or departments to which a two-digit "TITLE" number is assigned. There are "CHAPTER" numbers assigned within the Title and the rule text is divided among major sections with a number of subsections. An example IDAPA number is as follows:

IDAPA 38.07.01.200.02.c.ii.

"IDAPA" refers to Administrative Rules in general that are subject to the Administrative Procedures Act and are required by this act to be published in the Idaho Administrative Code and the Idaho Administrative Bulletin.

"IDAPA 38" refers to the Idaho Department of Administration

"05." refers to Title 05, which is the Department of Administrations's Division of Purchasing

"01." refers to Chapter 01 of Title 05, "Rules of the Division of Purchasing"

"200." refers to Major Section 200, "Content of the Invitation to Bid"

"02." refers to Subsection 200.02.

"c." refers to Subsection 200.02.c.

"ii." refers to Subsection 200.02.c.ii.

DOCKET NUMBERING SYSTEM

Internally, the Bulletin is organized sequentially using a rule docketing system. All rulemaking actions (documents) are assigned a "DOCKET NUMBER." The "Docket Number" is a series of numbers separated by a hyphen "-", (38-0501-0501). The docket numbers are published sequentially by IDAPA designation (e.g. the two-digit agency code). The following example is a breakdown of a typical rule docket:

"DOCKET NO. 38-0501-0501"

"38-" denotes the agency's IDAPA number; in this case the Department of Administration.

"0501-" refers to the TITLE AND CHAPTER numbers of the agency rule being promulgated; in this case the Division of Purchasing (TITLE 05), Rules of the Division of Purchasing (Chapter 01).

"0501" denotes the year and sequential order of the docket received during the year; in this case the first rule-making action in calendar year 2005.

Within each Docket, only the affected sections of chapters are printed. (see Sections Affected Index in each Bulletin for a listing of these.) The individual sections affected are printed in the Bulletin sequentially (e.g. Section "200" appears before Section "345" and so on). Whenever the sequence of the numbering is broken the following statement will appear:

(BREAK IN CONTINUITY OF SECTIONS)

INTERNAL AND EXTERNAL CITATIONS TO ADMINISTRATIVE RULES IN THE CODE AND BULLETIN

When making a citation to another Section or Subsection of a rule that is part of the same rule, a typical internal citation may appear as follows:

"...as found in Section 201 of this rule." OR "...in accordance with Subsection 201.06.c. of this rule."

The citation may also include the IDAPA, Title, or Chapter number, as follows"

"...in accordance with IDAPA 38.05.01.201..."

"38" denotes the IDAPA number of the agency.

"05" denotes the TITLE number of the rule.

"01" denotes the Chapter number of the rule.

"201" denotes the main Section number of the rule to which the citation refers.

Citations made within a rule to a different rule chapter (external citation) should also include the name of the Department and the name of the rule chapter being referenced, as well as the IDAPA, Title, and Chapter numbers. The following is a typical example of an external citation to another rule chapter:

"...as outlined in the Rules of the Department of Administration, IDAPA 38.04.04, "Rules Governing Capitol Mall Parking."

BULLETIN PUBLICATION SCHEDULE FOR CALENDAR YEAR 2006

Vol. No.	Monthly Issue of Bulletin	Closing Date for Agency Filing	Publication Date	21-day Comment Period End Date
06-1	January 2006	*November 19, 2005	January 4, 2006	January 25, 2006
06-2	February 2006	January 5, 2006	February 1, 2006	February 22, 2006
06-3	March 2006	February 3, 2006	March 1, 2006	March 22, 2006
06-4	April 2006	March 3, 2006	April 5, 2006	April 26, 2006
06-5	May 2006	March 31, 2006	May 3, 2006	May 24, 2006
06-6	June 2006	May 5, 2006	June 7, 2006	June 28, 2006
06-7	July 2006	June 2, 2006	July 5, 2006	July 26, 2006
06-8	August 2006	June 30, 2006	August 2, 2006	August 23, 2006
06-9	September 2006	August 4, 2006	September 6, 2006	September 27, 2006
06-10	October 2006	**August 23, 2006	October 4, 2006	October 25, 2006
06-11	November 2006	October 6, 2006	November 1, 2006	November 22, 2006
06-12	December 2006	November 3, 2006	December 6, 2006	December 27, 2006

BULLETIN PUBLICATION SCHEDULE FOR CALENDAR YEAR 2007

Vol. No.	Monthly Issue of Bulletin	Closing Date for Agency Filing	Publication Date	21-day Comment Period End Date
07-1	January 2007	*November 15, 2006	January 3, 2007	January 24, 2007
07-2	February 2007	January 5, 2007	February 7, 2007	February 28, 2007
07-3	March 2007	February 2, 2007	March 7, 2007	March 28, 2007
07-4	April 2007	March 2, 2007	April 4, 2007	April 26, 2007
07-5	May 2007	April 6, 2007	May 2, 2007	May 24, 2007
07-6	June 2007	May 4, 2007	June 6, 2007	June 28, 2007
07-7	July 2007	June 1, 2007	July 4, 2007	July 26, 2007
07-8	August 2007	June 29, 2007	August 1, 2007	August 23, 2007
07-9	September 2007	August 3, 2007	September 5, 2007	September 27, 2007
07-10	October 2007	**August 22, 2007	October 3, 2007	October 25, 2007
07-11	November 2007	October 5 2007	November 7, 2007	November 22, 2007
07-12	December 2007	November 2, 2007	December 5, 2007	December 27, 2006

^{*}Last day to submit proposed rulemaking before moratorium begins and last day to submit pending rules to be reviewed by the legislature.

^{**}Last day to submit proposed rules in order to complete rulemaking for review by legislature.

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IDAPA 55	Vocational and Technical Education, Division of	VOLUME 9
IDAPA 47	Vocational Rehabilitation, Division of	VOLUME 8
IDAPA 37	Water Resources, Department of	VOLUME 8
IDAPA 42	Wheat Commission	VOLUME 8

IDAPA 18 - IDAHO DEPARTMENT OF INSURANCE

18.01.24 - ADVERTISEMENT OF DISABILITY (ACCIDENT AND SICKNESS) INSURANCE DOCKET NO. 18-0124-0601

NOTICE OF RULEMAKING - PROPOSED RULE

AUTHORITY: In compliance with Section 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has initiated proposed rulemaking procedures. The action is authorized pursuant to Title 41, Chapters 2 and 13, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency on or before August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is a nontechnical explanation of the substance and purpose of the proposed rulemaking:

This rule regulates the advertisement of disability insurance. The proposed changes update the existing rule to cover internet advertising, clarify that long term care insurance is covered by the rule, specifically prohibit advertisements that do not clearly state the type of insurance being offered or that are designed to create undue fear in the minds of those to whom they are directed, eliminate an unnecessary paper filing requirement for insurers, and bring the rule into conformance with Department of Administration style requirements.

FEE SUMMARY: The following is a specific description of the fee or charge imposed or increased: N/A

FISCAL IMPACT: The following is a specific description, if applicable, of any fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year. N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because the primary changes simply clarify that long term care insurance is covered by the rule (it falls within the statutory definition of disability insurance) and eliminate an unnecessary paper filing.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the proposed rule, contact Martha Hopper at (208) 334-4315.

Anyone may submit written comments regarding this proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 28th day of June, 2006.

Shad Priest, Acting Director Idaho Department of Insurance 700 West State St., 3rd Floor Boise, Idaho 83720-0043 Phone: (208) 334-4250

Fax: (208) 334-4398

THE FOLLOWING IS THE TEXT OF DOCKET NO. 18-0124-0601

This ru		AUTHORITY. Julgated and adopted pursuant to the authority vested in the Director under Title 41, Chapters 2 and
	ho Code.	thingared and adopted pursuant to the authority vested in the Director under $\frac{41}{7-1-93}$ (7-1-93)()
001.	TITLE	AND SCOPE.
Sicknes	01. ss) Insurar	Title. These rules shall be cited as IDAPA 18.01.24, "Advertisement of Disability (Accident and nee."
and sice established disability conductions.	ckness instance in the characteristic characteristics characte	Scope . The purpose of these rules is to assure truthful and adequate disclosure of all material and tion in the advertising of accident and sickness insurance, including Medicare supplement accident surance and long term care insurance. This purpose is intended to be accomplished by the and adherence to, certain minimum standards and guidelines of conduct in the advertising of and sickness) insurance in a manner which prevents unfair competition among insurers and is accurate presentation and description to the insurance buying public of a policy of such insurance various advertising media. (7-1-93)()
002	003.	(RESERVED).
to the in	rdance wi	TEN INTERPRETATIONS. th Section 67-5201(19)(b)(iv), Idaho Code, this agency may have written statements which pertain ion of the rules of the chapter, or to the documentation of compliance with the rules of this chapter, will be available for public inspection and copying in accordance with the public records act.
Procedu	ninistrativ	VISTRATIVE APPEALS. The appeals shall be governed by Chapter 2, Title 41, Idaho Code, and the Idaho Administrative of Chapter 52, Idaho Code and IDAPA 04.11.01, "Idaho Rules of Administrative Procedure of Idaho Code and IDAPA 04.11.01," Idaho Rules of Administrative Procedure of Idaho Code and IDAPA 04.11.01, "Idaho Rules of Administrative Procedure of Idaho Code and IDAPA 04.11.01," Idaho Rules of Administrative Procedure of Idaho Code and IDAPA 04.11.01," Idaho Rules of Administrative Procedure of Idaho Code and IDAPA 04.11.01," Idaho Rules of Administrative Procedure of Idaho Code and IDAPA 04.11.01," Idaho Rules of Administrative Procedure of Idaho Code and IDAPA 04.11.01," Idaho Rules of Administrative Procedure of Idaho Code and IDAPA 04.11.01," Idaho Rules of Administrative Procedure of Idaho Code and IDAPA 04.11.01," Idaho Rules of Administrative Procedure of Idaho Code and IDAPA 04.11.01," Idaho Rules of Administrative Procedure of Idaho Rules of Idaho Code and IDAPA 04.11.01," Idaho Rules of Administrative Procedure of Idaho Rules of Idaho Rule
004. BY RE	<u>INCOR</u> FERENC	PORATION BY REFERENCE. THERE ARE NO DOCUMENTS TO BE INCORPORATED E.
<u>005.</u>	<u>OFFIC</u>	E OFFICE HOURS MAILING ADDRESS, STREET ADDRESS AND WEB SITE.
and leg	01. al holiday	Office Hours. The Department of Insurance is open from 8 a.m. to 5 p.m. except Saturday, Sunday ()
83720,	<u>02.</u> Boise, ID	Mailing Address. The department's mailing address is: Idaho Department of Insurance, P.O. Box 83720-0043.
83702-0	<u>03.</u> 0043.	Street Address. The principal place of business is 700 West State Street, 3rd Floor, Boise, Idaho
	<u>04.</u>	Web Site Address. The department's web address is http://www.doi.idaho.gov.
		C RECORDS ACT COMPLIANCE. ciated with these rules are subject to the provisions of the Idaho Public Records Act, Title 9, Chapter ()
006	010.	(RESERVED).
004 <u>7</u> .	APPLI	CABILITY.
(accide	01. nt and sice	Disability and Medicare Supplement Insurance . These rules shall apply to any disability ckness) insurance "advertisement," including Medicare supplement <u>and long term care</u> insurance

"advertisement," as that term is hereinafter defined, intended for presentation, distribution or dissemination in this State when such presentation, distribution or dissemination is made either directly or indirectly by or on behalf of an insurer, *agent*, *broker* or *solicitor* producer as those terms are defined in the Insurance Code of this State and these rules.

O2. Control over Advertisement. Every insurer shall establish and at all times maintain a system of control over the content, form and method of dissemination of all advertisements of its policies. All such advertisements, regardless of by whom written, created, designed or presented, shall be the responsibility of the insurer whose policies are so advertised. (7-1-93)

<u>008. -- 009.</u> (RESERVED).

00510. DEFINITIONS.

- **01. Advertisement**. An advertisement for the purpose of these rules shall include: (7-1-93)
- a. Printed and published material, audio visual material, and descriptive literature of an insurer used in direct mail, newspapers, magazines, radio scripts, TV scripts, web sites and other internet displays or communications, other forms of electronic communications, billboards and similar displays; and (7-1-93)(_____)
- **b.** Descriptive literature and sales aids of all kinds issued by an insurer, *agent* or *broker* producer for presentation to members of the insurance buying public, including but not limited to circulars, leaflets, booklets, depictions, illustrations, and form letters; and (7-1-93)(____)
- **Policy**. "Policy" for the purpose of these rules shall include any policy, plan, certificate, contract, agreement, statement of coverage, rider or endorsement which provides accident or sickness benefits, or medical, surgical or hospital expense benefits, whether on an indemnity, reimbursement, service or prepaid basis, except when issued in connection with another kind of insurance other than life, and except disability, waiver of premium and double indemnity benefits included in life insurance and annuity contracts. The term includes contracts for Medicare supplement insurance and long term care insurance.
- **03. Insurer**. "Insurer" for the purpose of these rules shall include any individual, corporation, association, partnership, reciprocal exchange, inter-insurer, Lloyds, fraternal benefit society, health maintenance organization, and any other legal entity which is defined as an "insurer" in the Insurance Code of this State and is engaged in the advertisement of a policy as "policy" is herein defined. (7-1-93)
- **04. Exception**. "Exception" for the purpose of these rules shall mean any provision in a policy whereby coverage for a specified hazard is entirely eliminated; it is a statement of a risk not assumed under the policy.

 (7-1-93)
- **05. Reduction.** "Reduction" for the purpose of these rules shall mean any provision which reduces the amount of the benefit; a risk of loss is assumed but payment upon the occurrence of such loss is limited to some amount or period less than would be otherwise payable had such reduction not been used. (7-1-93)
- **06. Limitation**. "Limitation" for the purpose of these rules shall mean any provision which restricts coverage under the policy other than an exception or a reduction. (7-1-93)

006. −− 010. (*RESERVED*).

(BREAK IN CONTINUITY OF SECTIONS)

013. ADVERTISEMENTS OF BENEFITS PAYABLE, LOSSES COVERED OR PREMIUMS PAYABLE.

- **01. Prohibitions.** Deceptive Words, Phrases Or Illustrations Prohibited: (7-1-93)
- **a.** No advertisement shall omit information or use words, phrases, statements, references or illustrations if the omission of such information or use of such words, phrases, statements, references or illustrations has the capacity, tendency or effect of misleading or deceiving purchasers or prospective purchasers as to the nature or extent of any policy benefit payable, loss covered or premium payable. The fact that the policy offered is made available to a prospective insured for inspection prior to consummation of the sale or an offer is made to refund the premium if the purchaser is not satisfied, does not remedy misleading statements. (7-1-93)
- **b.** No advertisement shall contain or use words or phrases such as, "all"; "full"; "complete"; "comprehensive"; "unlimited"; "up to"; "as high as"; "this policy will help pay your hospital and surgical bills"; "this policy will help fill some of the gaps that Medicare and your present insurance leave out"; "this policy will help to replace your income" (when used to express loss of time benefits); or similar words and phrases, in a manner which exaggerates any benefits beyond the terms of the policy. (7-1-93)
- **c.** An advertisement shall not contain descriptions of a policy limitation, exception, or reduction, worded in a positive manner to imply that it is a benefit, such as, describing a waiting period as a "benefit builder", or stating "even pre-existing conditions are covered after two years". Words and phrases used in an advertisement to describe such policy limitations, exceptions and reductions shall fairly and accurately describe the negative features of such limitations, exceptions and reductions of the policy offered. (7-1-93)
- **d.** No advertisement of a benefit for which payment is conditional upon confinement in a hospital or similar facility shall use words or phrases such as "tax free"; "extra cash"; "extra income"; "extra pay"; or substantially similar words or phrases in such a manner as to have the capacity, tendency or effect of misleading the public into believing that the policy advertised will, in some way, enable them to make a profit from being hospitalized. (7-1-93)
- e. No advertisement of a hospital or other similar facility benefit shall advertise that the amount of the benefit is payable on a monthly or weekly basis when, in fact, the amount of the benefit payable is based upon a daily pro rata basis relating to the number of days of confinement. When the policy contains a limit on the number of days of coverage provided, such limit must appear in the advertisement. (7-1-93)
- **f.** No advertisement of a policy covering only one (1) disease or a list of specified diseases shall imply coverage beyond the terms of the policy. Synonymous terms shall not be used to refer to any disease so as to imply broader coverage than is the fact. (7-1-93)
- g. An advertisement for a policy providing benefits for specified illnesses only, such as cancer, or for specified accidents only, such as automobile accidents, shall clearly and conspicuously in prominent type state the limited nature of the policy. The statement shall be worded in language identical to, or substantially similar to the following: "THIS IS A LIMITED POLICY"; "THIS IS A CANCER ONLY POLICY"; "THIS IS AN AUTOMOBILE ACCIDENT ONLY POLICY." (7-1-93)
- **h.** An advertisement of a direct response insurance product shall not imply that because "no insurance agent will call and no commissions will be paid to agents" that it is a "low cost plan", or use other similar words or phrases because the cost of advertising and servicing such policies is a substantial cost in the marketing of a direct response insurance product. (7-1-93)
- i. No advertisement shall contain or use words or phrases such as, "Medicare supplement"; "Medigap"; "this policy will help fill some of the gaps that Medicare leaves out"; or similar words and phrases, unless the policy is issued in compliance with IDAPA 18.01.54, "Rule to Implement the NAIC Medicare Supplement Insurance Minimum Standards Model Act." (7-1-93)
 - j. An advertisement must state clearly the type of insurance coverage being offered.
 - k. An advertisement, including invitations to inquire or invitations to contract, shall not employ

devices that are designed to create undue fear or anxiety in the minds of those to whom they are directed. An example is the use of phrases such as "cancer kills somebody every two minutes" or use of statistics such as the number of injuries due to accidents without reference to the total population from which the statistics are drawn. ()

02. Exceptions, Reductions and Limitations.

(7-1-93)

- **a.** When an advertisement refers to either a dollar amount, or a period of time for which any benefit is payable, or the cost of the policy, or specific policy benefit, or the loss for which such benefit is payable, it shall also disclose those exceptions, reductions and limitations affecting the basic provisions of the policy without which the advertisement would have the capacity or tendency to mislead or deceive. (7-1-93)
- **b.** When a policy contains a waiting, elimination, probationary or similar time period between the effective date of the policy and the effective date of coverage under the policy or a time period between the date a loss occurs and the date benefits begin to accrue for such loss, an advertisement which is subject to the requirements of the preceding paragraph shall disclose the existence of such periods. (7-1-93)
- **c.** An advertisement shall not use the words "only"; "just"; "merely"; "minimum"; or similar words or phrases to describe the applicability of any exceptions and reductions, such as: "This policy is subject to the following minimum exceptions and reductions". (7-1-93)

03. Pre-Existing Conditions.

(7-1-93)

- a. An advertisement which is subject to the requirements of Subsection 013.02 shall, in negative terms, disclose the extent to which any loss is not covered if the cause of such loss is traceable to a condition existing prior to the effective date of the policy. The *use of the* term "pre-existing condition" without an appropriate definition or description shall not be used.

 (7-1-93)(_____)
- **b.** When a policy does not cover losses resulting from pre-existing conditions, no advertisement of the policy shall state or imply that the applicant's physical condition or medical history will not affect the issuance of the policy or payment of a claim thereunder. This rule prohibits the use of the phrase "no medical examination required" and phrases of a similar import, but does not prohibit explaining "automatic issue". If an insurer requires a medical examination for a specified policy, the advertisement shall disclose that a medical examination is required. (7-1-93)
- c. When an advertisement contains an application form to be completed by the applicant and returned by mail for a direct response insurance product, such application form shall contain a question or statement which reflects the pre-existing condition provisions of the policy immediately preceding the blank space for the applicant's signature. For example, such an application form shall contain a question or statement substantially as follows: "Do you understand that this policy will not pay benefits during the first ______ year(s) after the issue date for a disease or physical condition which you now have or have had in the past?" ____ YES. Or substantially the following statement: "I understand that the policy applied for will not pay benefits for any loss incurred during the first ____ year(s) after the issue date on account of disease or physical condition which I now have or have had in the past."

 (7-1-93)

(BREAK IN CONTINUITY OF SECTIONS)

024. ENFORCEMENT PROCEDURES.

Advertising File. Each insurer shall maintain at its home or principal office a complete file containing every printed, published or prepared advertisement of its individual policies and typical printed, published or prepared advertisements of its blanket, franchise and group policies hereafter disseminated in this or any other state whether or not licensed in such other state, with a notation attached to each such advertisement which shall indicate the manner and extent of distribution and the form number of any policy advertised. Such file shall be subject to regular and periodical inspection by this Department. All such advertisements shall be maintained in said file for a period of either four (4) years or until the filing of the next regular report on examination of the insurer, whichever is

DEPARTMENT OF INSURANCE Advertisement of Disability (Accident & Sickness) Insurance

Docket No. 18-0124-0601 Proposed Rulemaking

the longer period of time.

(7-1-93)()

02. Certificate of Compliance. Each insurer required to file an Annual Statement which is now or which hereafter becomes subject to the provisions of these rules must file with this Department with its Annual Statement a Certificate of Compliance executed by an authorized officer of the insurer wherein it is stated that to the best of his knowledge, information and belief the advertisements which were disseminated by the insurer during the preceding statement year complied or were made to comply in all respects with the provisions of these rules and the insurance laws of this State as implemented and interpreted by these rules.

(7-1-93)

IDAPA 18 - DEPARTMENT OF INSURANCE

18.01.44 - SCHEDULE OF FEES, LICENSES AND MISCELLANEOUS CHARGES DOCKET NO. 18-0144-0601

NOTICE OF RULEMAKING - TEMPORARY AND PROPOSED RULE

EFFECTIVE DATE: The effective date of the temporary rule is August 1, 2006.

AUTHORITY: In compliance with Sections 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has adopted a temporary rule, and proposed rulemaking procedures have been initiated. The action is authorized pursuant to Title 41, Chapter 2, and Sections 41-401 and 41-907, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, not later than August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is the required finding and concise statement of the supporting reasons for adopting a temporary rule and a nontechnical explanation of the substance and purpose of the proposed rulemaking:

House Bill 586 amended Section 41-907, Idaho Code, to change the licensing requirement for insurance administrators, often referred to as third party administrators, from annual renewals to biennial renewals. The proposed rule is changing the fee for renewal for insurance administrator licensing to reflect this change. Under the proposed rule change the same renewal fee will be charged, but will only be collected every other year to correspond with the biennial renewal requirement. This will reduce by one-half the fee revenue collected from insurance administrators.

TEMPORARY RULE JUSTIFICATION: Pursuant to Section(s) 67-5226(1) (b), Idaho Code, the Governor has found that temporary adoption of the rule is appropriate for the following reasons:

Compliance with deadlines in amendments to governing law.

FEE SUMMARY: Pursuant to Section 67-5226(2), the Governor has found that the fee or charge being imposed or increased is justified and necessary to avoid immediate danger and the fee is described herein:

The rule reduces an existing fee.

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year resulting from this rulemaking: N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because the change is needed to conform to changes in existing law and the rule reduces fees paid by interested parties.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the temporary and proposed rule, contact Gina McBride (208) 334-4250.

Anyone may submit written comments regarding the proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 28th day of June, 2006.

DEPARTMENT OF INSURANCE Schedule of Fees, Licenses & Miscellaneous Charges

Docket No. 18-0144-0601 Temporary & Proposed Rulemaking

Shad Priest Acting Director Idaho Department of Insurance 700 West State Str, 3rd Floor Boise, Idaho 83720-0043 Phone: (208) 334-4250 Fax: (208) 334-4398

THE FOLLOWING IS THE TEXT OF DOCKET NO. 18-0144-0601

002. WRITTEN INTERPRETATIONS.

This agency may have written statements which pertain to the interpretation of the rules of this chapter, or to the documentation of compliance with the rules of this chapter. These documents will be available for public inspection and copying at cost in the main office of this agency in accordance with the public records act. (7-1-00)(8-1-06)T

(BREAK IN CONTINUITY OF SECTIONS)

004. INCORPORATION BY REFERENCE.

There are no documents to be incorporated by reference.

(8-1-06)T

005. OFFICE -- OFFICE HOURS -- MAILING ADDRESS AND STREET ADDRESS.

- <u>01.</u> <u>Office Hours.</u> The Department of Insurance is open from 8 a.m. to 5 p.m. except Saturday, Sunday and legal holidays. (8-1-06)T
- <u>02.</u> <u>Mailing Address.</u> The department's mailing address is: Idaho Department of Insurance, P.O. Box 83720, Boise ID 83720-0043. (8-1-06)T
- **93.** Street Address. The principal place of business is 700 West State Street, 3rd Floor, Boise, Idaho (8-1-06)T
 - **Web Site Address.** The department's web address is http://www.doi.idaho.gov. (8-1-06)T

006. PUBLIC RECORDS ACT COMPLIANCE.

Any records associated with these rules are subject to the provisions of the Idaho Public Records Act, Title 9, Chapter 3, Idaho Code.

(8-1-06)T

0047. -- 010. (RESERVED).

(BREAK IN CONTINUITY OF SECTIONS)

030. PRODUCER AND MISCELLANEOUS LICENSING FEES.

- **01. Original License Application**. The following fees are due and must be paid with the filing application for original license, which fees include the issuance of a license, if issued: (3-13-02)
 - **a.** Administrators -- Three hundred dollars (\$300).

(7-1-00)

b.	Producers Eighty dollars (\$80).	(3-13-02)
с.	Designation as a managing general agent Eighty dollars (\$80).	(3-13-02)
d.	Adjusters Eighty dollars (\$80).	(3-13-02)
e.	Reinsurance intermediary Eighty dollars (\$80).	(3-13-02)
f.	Surplus line brokers Eighty dollars (\$80).	(3-13-02)
02. the following lie	Examination Fees . The following fees are due and must be paid in order to take example censes:	inations for (3-13-02)
a.	Producers and adjusters application for examination and each time taken - Sixty dolla	rs (\$60). (3-13-02)
03.	Fingerprint Processing. Processing fingerprints, where required - Sixty dollars (\$60).	(7-1-00)
04. or continue each	License Renewal . The following fees are due and must be paid for each license in order and every license:	er to renew (3-13-02)
a. electronically.	Adjusters, producers (biennial) Eighty dollars (\$80), or sixty dollars (\$60) is	if renewed (3-16-04)
b.	Redesignation as managing general agent (annual) Eighty dollars (\$80).	(3-13-02)
с.	Administrators (annual biennial) Eighty dollars (\$80).	2) (8-1-06)T
<u>i.</u>	Renewal form shall be filed on or before December 31.	<u>(8-1-06)T</u>
<u>ii.</u> renewal fee.	Any renewal form postmarked after December 31 shall include a penalty in an amount of	equal to the (8-1-06)T
iii. supporting docu	A renewal form postmarked after January 31 must be submitted as a new applicaments and the full application fee.	<u>(8-1-06)T</u>
d. electronically.	Surplus line brokers (biennial) Eighty dollars (\$80), or sixty dollars (\$60)	if renewed (3-16-04)

IDAPA 18 - IDAHO DEPARTMENT OF INSURANCE

18.01.56 - REBATES AND ILLEGAL INDUCEMENTS TO OBTAINING TITLE INSURANCE BUSINESS DOCKET NO. 18-0156-0601

NOTICE OF RULEMAKING - PROPOSED RULE

AUTHORITY: In compliance with Section 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has initiated proposed rulemaking procedures. The action is authorized pursuant to Title 41, Chapters 2 and 27, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is a nontechnical explanation of the substance and purpose of the proposed rulemaking:

The proposed rule increases dollar limitations for expenditures by title insurance industry members on donations, promotional advertising, and business entertainment involving producers of title insurance business. The adjustments reflect changes in prices in the more than 12 years since the amounts were last set. Additional changes to the rule are made to clarify participation in trade association events and to conform to the Office of Administrative Rules style and formatting rules.

FEE SUMMARY: The following is a specific description of the fee or charge imposed or increased: N/A

FISCAL IMPACT: The following is a specific description, if applicable, of any fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year. N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because the changes were made in consultation with representatives of the affected industry.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the proposed rule, contact Dale Freeman at (208) 334-4250.

Anyone may submit written comments regarding this proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 28th day of June, 2006.

Shad Priest, Acting Director Idaho Department of Insurance 700 West State St., 3rd Floor Boise, Idaho 83720-0043 Phone: (208) 334-4250

Fax: (208) 334-4398

THE FOLLOWING IS THE TEXT OF DOCKET NO. 18-0156-0601

001. TITLE AND SCOPE.

DEPARTMENT OF INSURANCE Rebates & Illegal Inducements to Obtaining Title Insurance Business

Docket No. 18-0156-0601 Proposed Rulemaking

O1. Title. The title of this chapter is IDAPA 18.01.56, "Rebates and Illegal Inducements to Obtaining Title Insurance Business Rules."
Q2. Application of Rule. The provisions of this Rule shall apply to all title insurers and title insurance agents. This Rule does not limit the Director's authority to determine that other title insurance trade practice constitute violations of Idaho Code Sections 41-2708(3) and 41-1314.
Q3. Purpose. The purpose of this Rule is to define certain fair trade practice standards for tit insurance, the violation of which will constitute rebates and/or illegal inducements prohibited by Idaho Cod Sections 41-2708(3) and 41-1314. The Department of Insurance regulates the title insurance industry. It does n regulate producers of title business. Rule 18.01.56, "Rebates and Illegal Inducements to Obtaining Title Insurance Business," will interpret the anti-rebate and anti-illegal inducement statutes as applicable to the title insurance industry. This Rule has been thoroughly researched and is based in part on the rules of Idaho's neighbor states, addition, written and oral comments and recommendations about the rule as well as testimony provided at five hearings conducted across the state have been carefully reviewed and have contributed to the provisions of IDAP 18.01.56, "Rebates and Illegal Inducements to Obtaining Title Insurance Business". This Rule is intended to interpr broad anti-rebate and anti-illegal inducement statutes. The Rule was drafted after representatives of the title indust and producers of title business industries advised the Department that there was an accumulation of past and prese abuses that had previously gone unreported. These entities asked the Department to step in and help rectify the situation and suggested in part that the establishment of guidelines as to what is an inducement and what is an illegal inducement would help stop past and present abuses and curtail future abuses. The guidelines can be referred to in title entity's day to day business in interpreting what is an inducement and what is an illegal inducement. The guideline will also help the Department in its efforts to enforce the anti-rebate and anti-illegal inducement statutes. A not time has the Department of Insurance or its representatives stated that the standard practice of the title industry to give collateral benefits and that the standard practice of the industries of producers of title business are t
002 003. (RESERVED).
MRITTEN INTERPRETATIONS. In accordance with Section 67-5201(19)(b)(1v), Idaho Code, this agency may have written statements which pertato the interpretation of the rules of the chapter, or to the documentation of compliance with the rules of this chapter. These documents will be available for public inspection and copying in accordance with the public records act.
O03. ADMINISTRATIVE APPEALS. All administrative appeals shall be governed by Chapter 2, Title 41, Idaho Code, and the Idaho Administrative Procedure Act, Title 67, Chapter 52, Idaho Code and IDAPA 04.11.01, "Idaho Rules of Administrative Procedure the Attorney General".
004. APPLICABILITY INCORPORATION BY REFERENCE. The provisions of this Rule shall apply to all title insurers and title insurance agents. This Rule does not limit the Director's authority to determine that other title insurance trade practices constitute violations of Idaho Cod

<u>005.</u>

OFFICE -- OFFICE HOURS -- MAILING ADDRESS, STREET ADDRESS AND WEB ADDRESS.

Sections 41-2708(3) and 41-1314. No documents have been incorporated by reference into these rules.

(7-1-93)(_

DEPARTMENT OF INSURANCE Docket No. 18-0156-0601 Rebates & Illegal Inducements to Obtaining Title Insurance Business Proposed Rulemaking Office Hours. The Department of Insurance is open from 8 a.m. to 5 p.m. except Saturday, Sunday and legal holidays. Mailing Address. The department's mailing address is: Idaho Department of Insurance, P.O. Box 83720, Boise, ID 83720-0043. Street Address. The principal place of business is 700 West State Street, 3rd Floor, Boise, ID <u>03.</u> 83720-0043. Web Site Address. The department's web address is http://www.doi.idaho.gov. <u>04.</u> 006. PUBLIC RECORD COMPLIANCE.

Any records associated with these rules are subject to the provisions of the Idaho Public Records Act, Title 9, Chapter 3, Idaho Code.

007. -- 009. (RESERVED).

00510. DEFINITIONS.

- Business of Title Insurance. "Business of title insurance" has the meaning set forth in Idaho Code, Section 41-2704 and includes in addition thereto, the performance in this state by a title entity of any service in conjunction with the issuance of any contract or policy of title insurance.
- **Person**. "Person" includes any natural person and any firm, association, organization, partnership, business trust, corporation or other legal entity.
- Producer of Title Business. "Producer of title business" includes any person engaged in this state in the trade, business, occupation or profession of: (7-1-93)
 - a. Buying or selling interest in real property; or (7-1-93)
 - b. Making loans secured by interest in real property; and

(7-1-93)

- Shall include but not be limited to real estate agents, real estate brokers, mortgage brokers, lending or financial institutions, builders, attorneys, developers, subdividers, auctioneers engaged in the sale of real property, consumers, and the employees, agents, representatives, or solicitors of any of the foregoing. (7-1-93)
- **04. Self Promotional**. "Self promotional" refers to either a promotional function which is conducted by a single entity or a promotional item intended for distribution by a single entity. All benefits from the promotional function or item must accrue to the entity promoting itself. (7-1-93)
- **Things of Value.** "Things of value" means anything that has a monetary value and includes, but is 05. not limited to, tangible objects, services, use of facilities, monetary advances, extension of lines of credit, creation of compensating balances, uncollected cancellation fees for issuance of title commitments, and all other forms of consideration.
- 06. **Trade Association.** "Trade association" means an association of persons, a majority of whom are producers of title business, or persons whose primary activity involves real property. (7-1-93)
- Title Entity. "Title entity" includes both title insurance agents and title insurers and their employees, agents, or representatives. (7-1-93)

006. -- 010. (RESERVED).

PROHIBITED THINGS OF VALUE. 011.

A title entity shall not provide things of value to a producer of title business, consumer or member of the general public except as permitted in Sections 012, 013, 014, and 015 of this *rule* chapter. If a providing of things of value

does not clearly fit into the above four Rules, then it is a prohibited act. Exhibit 1, attached hereto, is a partial, but not all -inclusive, list of acts and practices which are considered illegal inducements prohibited by Title 41, Idaho Code (the Idaho Insurance Code).

(BREAK IN CONTINUITY OF SECTIONS)

013. PERMITTED ADVERTISING WITH TRADE ASSOCIATIONS.

- **01. Advertisements.** No advertisement may be placed in a publication that is published or distributed by, or on behalf of, a producer of title business. Advertising in a trade association publication is only permitted if the publication is an official publication of the trade association with at least regular quarterly publications. The publications must be nonexclusive (any title entity must have an equal opportunity to advertise in the publication and at a standard rate). The title entity's ad must be purely self-promotional. (4-26-95)
- **Operations.** A title entity is permitted to donate time to serve on a trade association committee and may also serve as an officer or director for the trade association. A title entity may also donate, contribute or otherwise sponsor a trade association event if the event is a recognized association event that generally benefits all members and affiliated members in an equal manner. The donation cannot benefit selected producer of title business members of the association unless through random process. Solicitation for the donation must be made of all members and affiliated members in an equal manner. Donations are per agent license or insurer and are limited to a cumulative donation value of two thousand dollars (\$2,000) or equivalent things of value collectively to all trade associations per year. In addition, a title entity is allowed to participate in or attend trade association events as long as the title entity pays a fee commensurate with fees paid by other participants in the events. These events include, but are not limited to, conventions, award banquets, symposiums, breakfasts, lunches, dinners, open houses, sporting activities and all other similar activities.

014. PERMITTED SELF-PROMOTIONAL ADVERTISING.

- **O1.** Self-Promotional Items. A title entity may distribute self-promotional items having an acquisition value of less than five ten dollars (\$\frac{5}{10}\$) to producers of title business, consumers, and members of the general public. These self-promotional items are limited to novelty gifts, advertising novelties, and generic business forms and specifically do not include food or beverages. A generic business form is a title insurance or escrow related form of common usage. This form shall not contain the name of a producer of title business. A title entity shall only distribute novelty gifts, advertising novelties, or generic business forms in the regular course of business. Distribution may be by hand or by regular messenger service and may be mailed if the recipient is out of the title entity's county. A recipient of a novelty gift or advertising novelty shall not receive gifts or advertising novelties in excess of five ten dollars (\$\frac{5}{10}\$) of cumulative value per month and no more than fifty dollars (\$50) of cumulative value of gifts or advertising novelties per year. A recipient of generic business forms shall not receive more than fifty (50) business forms per month and no more than twenty five dollars (\$25) of cumulative value of forms per year. A title entity shall also not give novelty gifts, advertising novelties or generic business forms to producers of title business, consumers, members of the general public, or trade associations for redistribution by these entities.
- **O2. Self-Promotional Functions**. Self-promotional functions $\frac{\text{def}}{\text{def}}$ are limited to the following $\frac{\text{three}}{\text{two}}$ (32) types of functions: $\frac{(4-26-95)(---)}{(4-26-95)(---)}$
- a. Educational programs a title entity is permitted to conduct educational programs. The instructor for the educational program must be a full time employee of the title entity. The education programs are limited to education solely regarding title and escrow. A title entity is permitted to expend no more than two ten dollars (\$210) per person at an educational program. For purposes of determining the maximum permitted expenditure, all costs associated with the delivery of the educational program shall be considered, including but not limited to, costs paid by the entity for travel, refreshments, instructor or speaking fees and facility rental. A title entity may participate in or make presentations at educational programs which are conducted or presented by other entities. The title entity is not permitted to expend any money to sponsor or cosponsor these programs, unless the educational program is a trade association event in which case Subsection 013.02 of this chapter will apply.

- **b.** Self-promotional programs a title entity is permitted to conduct self-promotional programs only for title insurance or escrow related matters. A title entity must not expend more than two dollars (\$2) per person at a self-promotional program.

 (4-26-95)
- **eb.** Open houses a title entity is permitted to have two (2) open houses per year. An open house shall be a self-promotional function at the title entity's owned or occupied facility (<u>i.e. g.</u> a Christmas party or any party, an open house for remodeling of its facility, an open house for a new building to become the title entity's facility). It shall be nonexclusive (an open invitation to all producers of title business is required). A title entity must not expend more than <u>seven fifteen</u> dollars <u>and fifty cents</u> (\$7.5015) per guest per open house. A title entity cannot combine permitted expenditures for two (2) open houses to be used for one (1) open house. A title entity also cannot accumulate left over or unused expenditures from one (1) open house and use those expenditures for a second open house.

015. PERMITTED BUSINESS ENTERTAINMENT.

A title entity may entertain a producer of title business *in a single day* with *a choice of* meals and/or *events not to* entertainment functions provided the expenditure per person entertained does not exceed *fifty* one hundred dollars (\$5100) *expense* per individual per day according to the following guidelines: (4-26-95)(____)

- Meals and Events. A title entity may entertain no more than four (4) persons from an office of one (1) producer of title business in a single day. This entertainment function may take place on or off the title entity's premises, but is restricted to one (1) meal per day for each of the four (4) persons from one (1) office. Business meals shall include all meals and/or drinks, including but not limited to breakfast, brunch, lunch, dinner, cocktails. A title entity shall not expend more than fifty dollars (\$50) per person for a meal. Also, no more than ten dollars (\$10) total transportation cost from the client's place of business shall be expended. It must be emphasized that no more than four (4) persons from an office of one (1) producer of title business can be entertained by a title entity in any one (1) day and only for a choice of one (1) business meal shall not expend more than one hundred dollars (\$100) per person per day for all meals and/or events. Meals and events shall include, but not be limited to, breakfast, brunch, lunch, dinner, cocktails, sporting events, sporting activities, trips and music and art events. These meals or events may occur on or off the title entity's premises. In addition, a title entity may entertain no more than four (4) persons who are employed by or agents of any single producer of title business in a single day. Spouses and/or guests of the producers of title business or employees or agents thereof shall be included in the count for purposes of determining the four (4) person maximum. In addition, a person may not be entertained by a title entity more than three (3) days during any ten (10) day period of time. For purposes of determining the maximum permitted expenditure, all costs associated with any meals or events shall be considered. This shall include, but not be limited to, costs paid by the title entity for travel, transportation, hotel, equipment or facility rental, meals, cocktails, refreshments, registration or entry fees and event tickets. Entertainment permitted under this rule may not be conditional upon or compensation for forwarding or directing title business to the title entity. (4-26-95)
- **Events.** A title entity may entertain no more than four (4) persons from an office of any producer of title business in a single day. This entertainment function may take place on or off the title entity's premises, but is restricted to one (1) event per day for each of the four (4) persons from one (1) office. An event shall include, but not be limited to, sporting events, sporting activities, and music and art events. The dollar limitation on event expenditures is limited to the admission price or fee to participate in the event, but shall not exceed fifty dollars (\$50) per person. Also, no more than ten dollars (\$10) total transportation costs from the client's place of business shall be expended. It must be emphasized that no more than four (4) persons from an office of one (1) producer of title business can be entertained by a title entity in any one (1) day and only for a choice of one event.

(BREAK IN CONTINUITY OF SECTIONS)

018. PENALTY.

This Section shall emphasize and restate the general penalties authorized pursuant to Title 41, Idaho Code, (the Idaho Insurance Code) for violations of the anti-rebate and anti-illegal inducement laws. (7-1-93)

01. Section 41-2708(3), Idaho Code. Section 41-2708(3) provides that each person and entity giving or receiving a rebate, illegal inducement, or a reduction in rate shall be liable for three (3) times the amount of such

rebate, illegal inducement, or reduced rate. In addition to this penalty, a title entity may also be subject to an administrative penalty as outlined below. (7-1-93)

- **02. Section 41-327, Idaho Code**. Section 41-327 provides that the Director may impose an administrative penalty not to exceed five thousand dollars (\$5,000) and/or suspend or revoke an insurer's certificate of authority if the Director finds, after a hearing thereon, that the insurer has either violated or failed to comply with the Insurance Code. (7-1-93)
- **03. Section 41-1077<u>16</u>, Idaho Code**. Section 41-10<u>77<u>16</u> provides that the Director may impose an administrative penalty not to exceed one thousand dollars (\$1,000) and/or suspend or revoke an agent's license if the Director finds, after a hearing thereon, that the agent has either violated or failed to comply with the Insurance Code.

 (7-1-93)(_____)</u>

EXHIBIT 1

A title entity shall not provide things of value except as provided in Sections 012, 013, 014, and 015 of this rule. The following is a partial, but not all inclusive, list of acts and practices which are considered illegal inducements prohibited by the Idaho Insurance Code:

- 1. A title entity shall not sponsor any activity off its premises unless the producer of title business bears the entire cost of the activity. A title entity shall not cosponsor, subsidize, contribute fees, prizes, gifts, or otherwise provide things of value for a promotional function off the title entity's premises regardless whether the function is self-promotional or not. Off premises functions/activities include, but are not limited to, meetings, luncheons, dinners, conventions, installation ceremonies, celebrations, outings, or related activities of producers of title business, cocktail parties, hospitality room functions, open house celebrations, dances, fishing trips, motor vehicle rallies, sporting events of all kinds, gambling trips, hunting trips or outings, golf tournaments, artistic performances, and outings in recreation areas or entertainment areas. It shall be the burden of the title entity to be prepared to present documentation to the Department of Insurance that no things of value were provided.
- 2. A title entity shall not sponsor, subsidize, supply prizes or labor, or otherwise provide things of value for promotional activities of producers of title business. This does not prevent a title entity from attending activities of producers of title business if there is no cost to the title entity other than the title entity's own entry fees, registration fees, meals, etc., and provided that these fees are no greater than those charged to producers of title business.
- 3. A title entity shall not provide or offer to provide, either directly or indirectly, a compensating balance or deposit in a lending institution either for the express or implied purpose of influencing the extension of credit by such lending institution to any such person, or for the express or implied purpose of influencing the placement or channeling of title insurance business by such lending institution.
- 4. A title entity shall not pay or offer to pay, either directly or indirectly, with respect to any producer of title business for:
- a. The services of an outside professional whose services are required by any producer of title business to complete or structure a particular transaction;
 - The salary of an employee of such producer of title business;
- c. The salary or any part of the salary of a relative of any producer of title business employed by a title entity, if the payment is in excess of the reasonable value of the work actually performed;
- d.A fee for making an inspection or appraisal of property, whether or not the fee bears a reasonable relationship to the services performed;
- e. Services required to be performed by any producer of title business in his or her professional capacity (e. g. the drafting of documents that are required to be filed by such producer of title business with the title entity for the initiation of closing and settlement services);

DEPARTMENT OF INSURANCE Rebates & Illegal Inducements to Obtaining Title Insurance Business

Docket No. 18-0156-0601 Proposed Rulemaking

f.Any evidence of title or a copy of the contents thereof which is not produced or issued by the title entity, if the evidence or the title relates to a current transaction;

- g. The rent for all or any part of the space occupied by any producer of title business;
- h. Money, prizes, or other things of value in any kind of a contest or promotional endeavor;
- i. Any advertising effort made in the name of, for, or on behalf of any producer of title business;
- j. Any business form of any such producer of title business other than a form regularly used in the conduct of the title entity's business, which form is furnished solely for the convenience of the title entity and does not constitute a benefit to the producer of title business; or
- k. Any salary, commission, or any other consideration to any employee who is at the same time actively engaged as a real estate licensee in the real property or mortgage brokerage business or is actively engaged in any other business of a producer of title business; or
- 1. The cancellation fee, the fee for the preliminary title report or other fee on behalf of any producer of title business before or after inducing such producer of title business to cancel an order with another title entity.
- 5. A title entity shall not furnish, or offer to furnish, all or any part of the time or productive effort of any employee of the title entity (example: office manager, escrow officer, secretary, clerk, messenger, etc.) to any producer of title business. This provision is not intended to effect the title entity's day to day business with producers of title business. It is directed at title entity employees being utilized by, or "loaned" out to a producer of title business for the self-promotional interests of the producer of title business.
- 6. A title entity shall not furnish, or offer to furnish, pay for, or offer to pay for, furniture, office supplies including file folders, telephones, equipment, or automobiles to any producer of title business, or pay for, or offer to pay for, any portion of the cost of renting, leasing, operating, or maintaining any of the aforementioned items.
- 7. A title entity shall not provide, or offer to provide, non title services (example: computerized bookkeeping, forms management, computer programming, trust accounting) or any similar benefit to a producer of title business, without charging for and receiving a fee commensurate for services provided (e. g. a fee for trust accounting shall be a like fee charged by state or federally chartered banks or savings and loan associations in the local area). This provision also does not prevent title entities from contracting with trade associations to provide non-title services for a profit (i.e. MLS services).
- 8. A title entity shall not provide gifts or other things of value in excess of fifty dollars (\$50) per year per individual in connection with congratulations or condolences to a producer of title business. A letter or eard in these instances will not be interpreted as providing a thing of value.
- 9. A title entity shall not waive a cancellation fee, fail to charge for a cancellation fee, or otherwise fail to make efforts to collect a cancellation fee from the recipient of services provided by the title entity.
- 10. A title entity shall not furnish any part of its facility (e. g. conference rooms, meeting rooms, etc.) to a producer of title business or trade association without receiving a fair rental charge commensurate with the average rental for similar facilities in the area.
- 11. A title entity shall not furnish reports containing publicly recorded information, appraisals, estimates, or income production potential, information kits or similar packages containing information about one or more parcels of real property (other than as permitted in Section 012) helpful to any producer of title business, consumer, or member of the general public without making a charge that is commensurate with the actual cost of the work performed and the material furnished (e. g. "farm packages", lot book reports, tax information, title commitments).
- 12. Delivery service between a title entity and a producer of title business shall be conducted by the title entity's regular messenger service and shall only involve the delivery of items from a title entity to a producer of title business or from a producer of title business to a title entity.

IDAPA 18 - IDAHO DEPARTMENT OF INSURANCE

18.01.68 - MINIMUM RESERVE STANDARDS FOR INDIVIDUAL AND GROUP HEALTH INSURANCE DOCKET NO. 18-0168-0601

NOTICE OF RULEMAKING - PROPOSED RULE

AUTHORITY: In compliance with Section 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has initiated proposed rulemaking procedures. The action is authorized pursuant to Sections 41-211 and 41-608, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, not later than August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is a nontechnical explanation of the substance and purpose of the proposed rulemaking:

This repeals rule sections setting forth minimum reserve standards for individual and group health insurance and replaces them with the standards set forth in the National Association of Insurance Commissioners Accounting Manual, as adopted by the Director pursuant to Section 41-335, Idaho Code. Other sections are added to conform with Office of Administrative Rules standards.

FEE SUMMARY: The following is a specific description of the fee or charge imposed or increased: N/A

FISCAL IMPACT: The following is a specific description, if applicable, of any fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year. N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because the rule implements national standards adopted by the National Association of Insurance Commissioners as part of the Accounting Practices and Procedures Manual adopted by the Director pursuant to Section 41-335, Idaho Code.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the proposed rule, contact Martha Hopper at (208) 334-4315.

Anyone may submit written comments regarding this proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 28th of June, 2006.

Shad Priest, Acting Director Idaho Department of Insurance 700 W State Street, 3rd Floor P O Box 83720, Boise ID 83720-0043

Phone: (208) 334-4250 Fax: (208) 334-4398

THE FOLLOWING IS THE TEXT OF DOCKET NO. 18-0168-0601

000. LEGAL AUTHORITY.

This rule is promulgated and adopted pursuant to and in accordance with the provisions of Sections 41-211, 41-355 and 41-608, Idaho Code, and Title 67, Chapter 52, Idaho Code.

(10-1-93)()

001. PURPOSE TITLE AND SCOPE.

The purpose of this rule is to set forth rules governing Reserve Standards for disability policies, which the Department deems necessary to carry out the provisions of Section 41-608, Idaho Code.

- O1. Title. This rule shall be cited as IDAPA 18.01.68, "Minimum Reserve Standards for Individual and Group Health Insurance Contracts."
- **a.** When an insurer determines that adequacy of its health insurance reserves requires reserves in excess of the minimum standards specified herein, such increased reserves shall be held and shall be considered the minimum reserves for that insurer.

 (10-1-93)
- **b.** With respect to any block of contracts, or with respect to an insurer's health business as a whole, a prospective gross premium valuation is the ultimate test of reserve adequacy as of a given valuation date. Such a gross premium valuation will take into account, for contracts in force, in a claims status, or in a continuation of benefits status on the valuation date, the present value as of the valuation date of all expected benefits unpaid, all expected expenses unpaid, and all unearned or expected premiums, adjusted for future premium increases reasonably expected to be put into effect.

 (10-1-93)
- e. Such a gross premium valuation is to be performed whenever a significant doubt exists as to reserve adequacy with respect to any major block of contracts, or with respect to the insurer's health business as a whole. In the event inadequacy is found to exist, immediate loss recognition shall be made and the reserves restored to adequacy. Adequate reserves (inclusive of claim, premium and contract services, if any) shall be held with respect to all contracts, regardless of whether contract reserves are required for such contracts under these standards.

 (10-1-93)
- **d.** Whenever minimum reserves, as defined in these standards, exceed reserve requirements as determined by a prospective gross premium valuation, such minimum reserves remain the minimum requirement under these standards.

 (10-1-93)
- 02. Categories of Reserves. The following sections set forth minimum standards for categories of health insurance reserves:
 - **a.** Subsection 18.01.68.011, Claim Reserves. (10-1-93)
 - b. Subsection 18.01.68.012, Premium Reserves. (10-1-93)
 - e. Subsection 18.01.68.013, General Contract Reserves. (10-1-93)
 - d. Subsection 18.01.68.014, Minimum Standards for Contract Reserves. (10-1-93)
 - e. Subsection 18.01.68.015, Alternative Valuation Methods and Assumptions Generally. (10-1-93)
 - f. Subsection 18.01.68.016, Tests For Adequacy and Reasonableness of Contract Reserves. (10-1-93)
- g. Adequacy of an insurer's health insurance reserves is to be determined on the basis of all three (3) categories combined. However, these standards emphasize the importance of determining appropriate reserves for each of the three (3) categories separately.

 (10-1-93)

DEPARTMENT OF INSURANCE Minimum Reserve Standards for Individual & Group Health Insurance

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- 03. Appendices. These standards contain one appendix which is an integral part of the standards, and one additional "supplementary" appendix which is not part of the standards as such, but is included for explanatory and illustrative purposes only:

 (10-1-93)
- a. Appendix A. Specific minimum standards with respect to morbidity, mortality and interest, which apply to claim reserves according to year of incurral and to contract reserves according to year of issue. (10-1-93)
 - b. Appendix B. (Supplementary) Waiver of Premium Reserves. (10-1-93)
- 002. -- 003. (RESERVED).

002. WRITTEN INTERPRETATIONS.

In accordance with Section 67-5201(19)(b)(iv), Idaho Code, this agency may have written statements which pertain to the interpretation of the rules of the chapter, or to the documentation of compliance with the rules of this chapter. hese documents will be available for public inspection and copying in accordance with the public records act. ()

003. ADMINISTRATIVE APPEALS.

All administrative appeals shall be governed by Chapter 2, Title 41, Idaho Code, the Idaho Administrative Procedure Act, Title 67, Chapter 52, Idaho Code and IDAPA 04.11.01, "Idaho Rules of Administrative Procedure of the Attorney General."

004. INCORPORATION BY REFERENCE.

The NAIC Accounting Practices and Procedures Manual as adopted by the Director pursuant to Section 41-335, Idaho Code, is hereby incorporated by reference.

005. OFFICE -- OFFICE HOURS -- MAILING ADDRESS, STREET ADDRESS AND WEB SITE.

- **01.** Office Hours. The Department of Insurance is open from 8 a.m. to 5 p.m. except Saturday, Sunday and legal holidays.
- <u>02.</u> <u>Mailing Address</u>. The department's mailing address is: Idaho Department of Insurance, P.O. Box 83720, Boise, ID 83720-0043.
- **93.** Street Address. The principal place of business is 700 West State Street, 3rd Floor, Boise, Idaho ()
 - <u>Web Site Address</u>. The department's web address is http://www.doi.idaho.gov.

006. PUBLIC RECORDS ACT COMPLIANCE.

Any records associated with these rules are subject to the provisions of the Idaho Public Records Act, Title 9, Chapter 3, Idaho Code.

<u>007. -- 009.</u> (RESERVED).

00410. DEFINITIONS.

As used in this valuation standard, the following terms have the following meaning:

(10-1-93)

01. Annual Claim Cost. The net annual cost per unit of benefit before the addition of expenses, including claim settlement expenses, and a margin for profit or contingencies. For example, the annual claim cost for a one hundred dollar (\$100) monthly disability benefit, for a maximum disability benefit period of one (1) year, with an elimination period of one (1) week, with respect to a male at age thirty five (35), in a certain occupation might be twelve dollars (\$12), while the gross premium for this benefit might be eighteen dollars (\$18). The additional six dollars (\$6) would cover expenses and profit or contingencies. NAIC Accounting Practices and Procedure Manual. The manual annually adopted and published by the National Association of Insurance Commissioners (NAIC) which contains statutory accounting guidance, as adopted by the director of the department of insurance in accordance with section 41-335, Idaho Code.

- O2. Claims Accrued. That portion of claims incurred on or prior to the valuation date which result in liability of the insurer for the payment of benefits for medical services which have been rendered on or prior to the valuation date, and for the payment of benefits for days of hospitalization and days of disability which have occurred on or prior to the valuation date, which the insurer has not paid as of the valuation date, but for which it is liable, and will have to pay after the valuation date. This liability is sometimes referred to as a liability for "accrued" benefits. A claim reserve, which represents an estimate of this accrued claim liability, must be established. (10-1-93)
- 03. Claims Reported. When an insurer has been informed that a claim has been incurred, if the date reported is on or prior to the valuation date, the claim is considered as a reported claim for annual statement purposes.

 (10-1-93)
- O4. Claims Unaccrued. That portion of claims incurred on or prior to the valuation date which result in liability of the insurer for the payment of benefits for medical services expected to be rendered after the valuation date, and for benefits expected to be payable for days of hospitalization and days of disability occurring after the valuation date. This liability is sometimes referred to as a liability for unaccrued benefits. A claim reserve, which represents an estimate of the unaccrued claim payments expected to be made (which may or may not be discounted with interest), must be established.

 (10-1-93)
- 05. Claims Unreported. When an insurer has not been informed, on or before the valuation date, concerning a claim that has been incurred on or prior to the valuation date, the claim is considered as an unreported claim for annual statement purposes.

 (10-1-93)
- 06. Date of Disablement. The earliest date the insured is considered as being disabled under the definition of disability in the contract, based on a doctor's evaluation or other evidence. Normally this date will coincide with the start of any elimination period.

 (10-1-93)
- **67.** Elimination Period. A specified number of days, weeks, or months starting at the beginning of each period of loss, during which no benefits are payable.

 (10-1-93)
- 08. Gross Premium. The amount of premium charged by the insurer. It includes the net premium (based on claim-cost) for the risk, together with any loading for expenses, profit or contingencies. (10-1-93)
- **09.** Group Insurance. The term group insurance includes blanket insurance and franchise insurance and any other forms of group insurance.

 (10-1-93)
- 10. Level Premium. A premium calculated to remain unchanged throughout either the lifetime of the policy, or for some shorter projected period of years. The premium need not be guaranteed; in which case, although it is calculated to remain level, it may be changed if any of the assumptions on which it was based are revised at a later time. Generally, the annual claim costs are expected to increase each year and the insurer, instead of charging premiums that correspondingly increase each year, charges a premium calculated to remain level for a period of years or for the lifetime of the contract. In this case the benefit portion of the premium is more than needed to provide for the cost of benefits during the earlier years of the policy and less than the actual cost in the later years. The building of a prospective contract reserve is a natural result of level premiums.
- H. Long Term Care Insurance. Any insurance policy or rider advertised, marketed, offered or designed to provide coverage for not less than twelve (12) consecutive months for each covered person on an expense incurred, indemnity, prepaid or other basis; for one or more necessary or medically necessary diagnostic, preventive, therapeutic, rehabilitative, maintenance or personal care services, provided in a setting other than an acute care unit of a hospital. Such term also includes a policy or rider which provides for payment of benefits based upon cognitive impairment or the loss of functional capacity. Long term care insurance may be issued by insurers; fraternal benefit societies; nonprofit health, hospital, and medical service corporations; prepaid health plans; health maintenance organizations or any similar organization to the extent they are otherwise authorized to issue life or health insurance. Long-term care insurance shall not include any insurance policy which is offered primarily to provide basic Medicare supplement coverage, basic hospital expense coverage, basic medical surgical expense coverage, hospital confinement indemnity coverage, major medical expense coverage, disability income or related asset-protection coverage, accident only coverage, specified disease or specified accident coverage, or limited benefit health coverage.

 (10-1-93)

- 12. Modal Premium. This refers to the premium paid on a contract based on a premium term which could be annual, semi-annual, quarterly, monthly, or weekly. Thus if the annual premium is one hundred dollars (\$100) and if, instead, monthly premiums of nine dollars (\$9) are paid then the modal premium is nine dollars (\$9).
- 13. Negative Reserve. Normally the terminal reserve is a positive value. However, if the values of the benefits are decreasing with advancing age or duration it could be a negative value, called a negative reserve.

 (10-1-93)
- 14. Preliminary Term Reserve Method. Under this method of valuation the valuation net premium for each year falling within the preliminary term period is exactly sufficient to cover the expected incurred claims of that year, so that the terminal reserves will be zero (0) at the end of the year. As of the end of the preliminary term period, a new constant valuation net premium (or stream of changing valuation premiums) becomes applicable such that the present value of all such premiums is equal to the present value of all claims expected to be incurred following the end of the preliminary term period.

 (10-1-93)
- 15. Present Value of Amounts Not Yet Due on Claims. The reserve for "claims unaccrued" (see definition), which may be discounted at interest.
- 16. Reserve. The term "reserve" is used to include all items of benefit liability, whether in the nature of incurred claim liability or in the nature of contract liability relating to future periods of coverage, and whether the liability is accrued or unaccrued. An insurer under its contracts promises benefits which result in:

 (10-1-93)
- a. Claims which have been incurred, that is, for which the insurer has become obligated to make payment, on or prior to the valuation date. On these claims, payments expected to be made after the valuation date for accrued and unaccrued benefits are liabilities of the insurer which should be provided for by establishing claim reserves: or
- **b.** Claims which are expected to be incurred after the valuation date. Any present liability of the insurer for these future claims should be provided for by the establishment of contract reserves and uncarned premium reserves.

 (10-1-93)
- 17. Terminal Reserve. This is the reserve at the end of a contract year, and is defined as the present value of benefits expected to be incurred after that contract year minus the present value of future valuation net premiums.

 (10-1-93)
- 18. Unearned Premium Reserve. This reserve values that portion of the premium paid or due to the insurer which is applicable to the period of coverage extending beyond the valuation date. Thus if an annual premium of one hundred twenty (\$120) was paid on November 1, twenty dollars (\$20) would be earned as of December 31 and the remaining one hundred dollars (\$100) would be unearned. The unearned premium reserve could be on a gross basis as in this example, or on a valuation net premium basis.
- 19. Valuation Net Modal Premium. This is the modal fraction of the valuation net annual premium that corresponds to the gross modal premium in effect on any contract to which contract reserves apply. Thus if the mode of payment in effect is quarterly, the valuation net modal premium is the quarterly equivalent of the valuation net annual premium.

 (10-1-93)

011. MINIMUM RESERVE STANDARDS.

Unless otherwise prescribed or permitted, the Minimum Reserve Standards for Individual and Group Health Insurance Contracts set forth in the National Association of Insurance Commissioners' Accounting Practices and Procedures Manual apply to all individual and group health (disability) insurance coverages including single premium credit disability insurance. All other credit insurance is not subject to this rule.

005. -- 010. (RESERVED).

011. CLAIM RESERVES.

01. General. (10-1-93)

- **a.** Claim reserves are required for all incurred but unpaid claims on all health insurance policies.

 (10-1-93)
- **b.** Appropriate claim expense reserves are required with respect to the estimated expense of settlement of all incurred but unpaid claims.

 (10-1-93)
- e. All such reserves for prior valuation years are to be tested for adequacy and reasonableness along the lines of claim runoff schedules in accordance with the statutory financial statement including consideration of any residual unpaid liability.

 (10-1-93)
 - 02. Minimum Standards for Claim Reserves. (10-1-93)
 - a. Disability income: (10-1-93)
 - i. Interest. The maximum interest rate for claim reserves is specified in Appendix A. (10-1-93)
- ii. Morbidity. Minimum standards with respect to morbidity are those specified in Appendix A; except that, at the option of the insurer, for claims with a duration from date of disablement of less than two years, reserves may be based on the insurer's experience, if such experience is considered credible, or upon other assumptions designed to place a sound value on the liabilities.

 (10-1-93)
- iii. Duration of disablement. For contracts with an elimination period, the duration of disablement should be measured as dating from the time that benefits would have begun to accrue had there been no elimination period.

 (10-1-93)
 - b. All other benefits: (10-1-93)
 - i. Interest. The maximum interest rate for claim reserves is specified in Appendix A. (10-1-93)
- ii. Morbidity or other contingency. The reserve should be based on the insurer's experience, if such experience is considered credible, or upon other assumptions designed to place a sound value on the liabilities.

 (10-1-93)
- 03. Claim Reserve Methods Generally. Any generally accepted or reasonable actuarial method or combination of methods may be used to estimate all claim liabilities. The methods used for estimating liabilities generally may be aggregate methods, or various reserve items may be separately valued. Approximations based on groupings and averages may also be employed. Adequacy of the claim reserves, however, shall be determined in the aggregate.

 (10-1-93)

012. PREMIUM RESERVES.

01. General. (10-1-93)

- **a.** Uncarned premium reserves are required for all contracts with respect to the period of coverage for which premiums, other than premiums paid in advance, have been paid beyond the date of valuation. (10-1-93)
- b. If premiums due and unpaid are carried as an asset, such premiums must be treated as premiums in force, subject to unearned premium reserve determination. The value of unpaid commissions, premium taxes, and the cost of collection associated with due and unpaid premiums must be carried as an offsetting liability. (10-1-93)
- e. The gross premiums paid in advance for a period of coverage commencing after the next premium due date which follows the date of valuation may be appropriately discounted to the valuation date and shall be held either as a separate liability or as an addition to the unearned premium reserve which would otherwise be required as a minimum.

 (10-1-93)

02. Minimum Standards for Unearned Premium Reserves.

(10-1-93)

- a: The minimum unearned premium reserve with respect to any contract is the pro rata unearned modal premium that applies to the premium period beyond the valuation date, with such premium determined on the basis of:

 (10-1-93)
 - i. The valuation net modal premium on the contract reserve basis applying to the contract; or (10-1-93)
 - ii. The gross modal premium for the contract if no contract reserve applies. (10-1-93)
- b. However, in no event may the sum of the unearned premium and contract reserves for all contracts of the insurer subject to contract reserve requirements be less than the gross modal unearned premium reserve on all such contracts, as of the date of valuation. Such reserve shall never be less than the expected claims for the period beyond the valuation date represented by such unearned premium reserve, to the extent not provided for elsewhere.

 (10-1-93)
- 03. Premium Reserve Methods Generally. The insurer may employ suitable approximations and estimates; including, but not limited to groupings, averages and aggregate estimation; in computing premium reserves. Such approximations or estimates should be tested periodically to determine their continuing adequacy and reliability.

 (10-1-93)

013. GENERAL CONTRACT RESERVES.

- 01. Contracts Requiring Contract Reserves. Contract reserves are required, unless otherwise specified in Subsection 013.02 for: (10-1-93)
 - a. All individual and group contracts with which level premiums are used; or (10-1-93)
- b. All individual and group contracts with respect to which, due to the gross premium pricing structure at issue, the value of the future benefits at any time exceeds the value of any appropriate future valuation net premiums at that time. The values specified in this Subsection 013.01.b. shall be determined on the basis specified in Section 014.
 - 02. Contracts Not Requiring a Contract Reserve. Contracts not requiring a contract reserve are:
 (10-1-93)
 - a. Contracts which cannot be continued after one (1) year from issue; or (10-1-93)
- **b.** Contracts already in force on the effective date of these standards for which no contract reserve was required under the immediately preceding standards. (10-1-93)
- 03. Contract Reserve in Addition to Claim Reserves and Premium Reserves. The contract reserve is in addition to claim reserves and premium reserves. (10-1-93)
- 04. Methods and Procedures for Contract Reserves. The methods and procedures for contract reserves should be consistent with those for claim reserves for any contract, or else appropriate adjustment must be made when necessary to assure provision for the aggregate liability. The definition of the date of incurral must be the same in both determinations.

 (10-1-93)

014. MINIMUM STANDARDS FOR CONTRACT RESERVES.

O1. Morbidity or Other Contingency. Minimum standards with respect to morbidity are those set forth in Appendix A. Valuation net premiums used under each contract must have a structure consistent with the gross premium structure at issue of the contract as this relates to advancing age of insured, contract duration and period for which gross premiums have been calculated. Contracts for which tabular morbidity standards are not specified in

DEPARTMENT OF INSURANCE Minimum Reserve Standards for Individual & Group Health Insurance

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(10-1-93)

Appendix A shall be valued using tables established for reserve purposes by a qualified actuary and acceptable to the Director.

(10-1-93)

- **92.** Interest. The maximum interest rate is specified in Appendix A.
- 03. Termination Rates. Termination rates used in the computation of reserves shall be on the basis of a mortality table as specified in Appendix A except as noted in the following paragraph. Under contracts for which premium rates are not guaranteed, and where the effects of insurer underwriting are specifically used by policy duration in the valuation morbidity standard or for return of premium or other deferred cash benefits, total termination rates may be used at ages and durations where these exceed specified mortality table rates, but not in excess of the lesser of:

 (10-1-93)
 - **Eighty percent (80%) of the total termination rate used in the calculation of the gross premiums; or**(10-1-93)
- **b.** Eight percent (8%). Where a morbidity standard specified in Appendix A is on an aggregate basis, such morbidity standard may be adjusted to reflect the effect of insurer underwriting by policy duration. The adjustments must be appropriate to the underwriting and be acceptable to the Director.

 (10-1-93)

04. Reserve Method. (10-1-93)

- **a.** For insurance except long-term care and return of premium or other deferred cash benefits, the minimum reserve is the reserve calculated on the two (2) year full preliminary term method; that is, under which the terminal reserve is zero (0) at the first and also the second contract anniversary.

 (10-1-93)
- **b.** For long-term care insurance, the minimum reserve is the reserve calculated on the one-year full preliminary term method. (10-1-93)
- e. For return of premium or other deferred cash benefits, the minimum reserve is the reserve calculated as follows:

 (10-1-93)
- i. On the one (1) year preliminary term method if such benefits are provided at any time before the twentieth (20th) anniversary;
- ii. On the two (2) year preliminary term method if such benefits are only provided on or after the twentieth (20th) anniversary. (10-1-93)
- iii. The preliminary term method may be applied only in relation to the date of issue of a contract.

 Reserve adjustments introduced later, as a result of rate increases, revisions in assumptions or for other reasons, are to be applied immediately as of the effective date of adoption of the adjusted basis.

 (10-1-93)
- 05. Negative Reserves. Negative reserves on any benefit may be offset against positive reserves for other benefits in the same contract, but the total contract reserve with respect to all benefits combined may not be less than zero (0).

 (10-1-93)

015. ALTERNATIVE VALUATION METHODS AND ASSUMPTIONS GENERALLY.

Provided the contract reserve on all contracts to which an alternative method or basis is applied is not less in the aggregate than the amount determined according to the applicable standards specified above; an insurer may use any reasonable assumptions as to interest rates, termination and/or mortality rates, and rates of morbidity or other contingency. Also, subject to the preceding condition, the insurer may employ methods other than the methods stated above in determining a sound value of its liabilities under such contracts, including, but not limited to the following: the net level premium method; the one (1) year full preliminary term method; prospective valuation on the basis of actual gross premiums with reasonable allowance for future expenses; the use of approximations such as those involving age groupings, groupings of several years of issue, average amounts of indemnity, grouping of similar contract forms; the computation of the reserve for one contract benefit as a percentage of, or by other relation to, the aggregate contract reserves exclusive of the benefit or benefits so valued; and the use of a composite annual claim cost for all or any combination of the benefits included in the contracts valued.

016. TESTS FOR ADEQUACY AND REASONABLENESS OF CONTRACT RESERVES.

Annually, an appropriate review shall be made of the insurer's prospective contract liabilities on contracts valued by tabular reserves, to determine the continuing adequacy and reasonableness of the tabular reserves giving consideration to future gross premiums. The insurer shall make appropriate increments to such tabular reserves if such tests indicate that the basis of such reserves is no longer adequate; subject, however, to the minimum standards of Section 014. In the event a company has a contract or a group of related similar contracts, for which future gross premiums will be restricted by contract, insurance department regulations, or for other reasons, such that the future gross premiums reduced by expenses for administration, commissions, and taxes will be insufficient to cover future claims, the company shall establish contract reserves for such shortfall in the aggregate.

(10-1-93)

017. REINSURANCE.

Increases to, or credits against reserves carried, arising because of reinsurance assumed or reinsurance ceded, must be determined in a manner consistent with these minimum reserve standards and with all applicable provisions of the reinsurance contracts which affect the insurer's liabilities.

(10-1-93)

01<u>82</u>. -- 999. (RESERVED).

APPENDIX A SPECIFIC STANDARDS FOR MORBIDITY, INTEREST AND MORTALITY

I. MORBIDITY.

A. Minimum morbidity standards for valuation of specified individual contract health insurance benefits are as follows:

- (1) Disability Income Benefits Due to Accident or Sickness.
- (a) Contract Reserves:

Contracts issued on or after January 1, 1965 and prior to January 1, 1994:

The 1964 Commissioners Disability Table (64 CDT).

Contracts issued on or after January 1, 1994:

The 1985 Commissioners Individual Disability Tables A (85CIDA); or

The 1985 Commissioners Individual Disability Tables B (85CIDB).

Contracts issued from 1986 through 1993:

Optional use of either the 1964 Table or the 1985 Tables.

Each insurer shall elect, with respect to all individual contracts issued in any one statement year, whether it will use Tables A or Tables B as the minimum standard. The insurer may, however, elect to use the other tables with respect to any subsequent statement year.

(b) Claim Reserves:

The minimum morbidity standard in effect for contract reserves on currently issued contracts, as of the date the claim is incurred.

(2) Hospital Benefits, Surgical Benefits and Maternity Benefits (Scheduled benefits or fixed time period benefits only).

(a) Contract Reserves:

Contracts issued on or after January 1, 1955, and before January 1, 1982:

The 1956 Intercompany Hospital-Surgical Tables.

Contracts issued on or after January 1, 1982 and before January 1, 1994:

The 1956 Intercompany Hospital-Surgical Tables or

The 1974 Medical Expense Tables, Table A, Transactions of the Society of Actuaries, Volume XXX, pg. 63. Refer to the paper (in the same volume, pg. 9) to which this table is appended, including its discussions, for methods of adjustment for benefits not directly valued in Table A: "Development of the 1974 Medical Expense Benefits," Houghton and Wolf.

Contracts issued after January 1, 1994:

The 1974 Medical Expense Tables.

(b) Claim Reserves:

No specific standard. See (5).

- (3) Cancer Expense Benefits (Scheduled benefits or fixed time period benefits only).
- (a) Contract Reserves:

Contracts issued on or after January 1, 1986:

The 1985 NAIC Cancer Claim Cost Tables.

(b) Claim Reserves:

No specific standard. See (5).

- (4) Accidental Death Benefits.
- (a) Contract Reserves:

Contracts issued on or after January 1, 1965:

The 1959 Accidental Death Benefits Table.

(b) Claim Reserves:

Actual amount incurred.

- (5) Other Individual Contract Benefits.
- (a) Contract Reserves:

For all other individual contract benefits, morbidity assumptions are to be determined as provided in the reserve standards.

(b) Claim Reserves:

For all benefits other than disability, claim reserves are to be determined as provided in the standards.

- B. Minimum morbidity standards for valuation of specified group contract health insurance benefits are as follows:
 - (1) Disability Income Benefits Due to Accident or Sickness.
 - (a) Contract Reserves:

Contracts issued prior to January 1, 1994:

The same basis, if any, as that employed by the insurer as of January 1, 1994;

Contracts issued on or after January 1, 1994:

The 1987 Commissioners Group Disability Income Table (87CGDT).

(b) Claim Reserves:

For claims incurred on or after January 1, 1994:

The 1987 Commissioners Group Disability Income Table (87CGDT);

For claims incurred prior to January 1, 1994:

Use of the 87CGDT is optional.

- (2) Other Group Contract Benefits.
- (a) Contract Reserves:

For all other group contract benefits, morbidity assumptions are to be determined as provided in the reserve standards.

(b) Claim Reserves:

For all benefits other than disability, claim reserves are to be determined as provided in the standards.

H. INTEREST.

- A. For contract reserves the maximum interest rate is the maximum rate permitted by law in the valuation of whole life insurance issued on the same date as the health insurance contract.
- B. For claim reserves the maximum interest rate is the maximum rate permitted by law in the valuation of whole life insurance issued on the same date as the claim incurral date.

HI. MORTALITY.

The mortality basis used shall be according to a table (but without use of selection factors) permitted by law for the valuation of whole life insurance issued on the same date as the health insurance contract

APPENDIX B RESERVES FOR WAIVER OF PREMIUM(Supplementary explanatory material)

Waiver of premium reserves involve several special considerations. First, the disability valuation tables promulgated by the NAIC are based on exposures that include contracts on premium waiver as in force contracts.

DEPARTMENT OF INSURANCE Minimum Reserve Standards for Individual & Group Health Insurance

Docket No. 18-0168-0601 Proposed Rulemaking

Hence, contract reserves based on these tables are NOT reserves on "active lives" but rather reserves on contracts "in force". This is true for the 1964 CDT and for both the 1985 CIDA and CIDB tables.

Accordingly, tabular reserves using any of these tables should value reserves on the following basis:

Claim reserves should include reserves for premiums expected to be waived, valuing as a minimum the valuation net premium being waived.

Premium reserves should include contracts on premium waiver as in-force contracts, valuing as a minimum the unearned modal valuation net premium being waived.

Contract reserves should include recognition of the waiver of premium benefit in addition to other contract benefits provided for, valuing as a minimum the valuation net premium to be waived.

If an insurer is, instead, valuing reserves on what is truly an active life table, or if a specific valuation table is not being used but the insurer's gross premiums are calculated on a basis that includes in the projected exposure only those contracts for which premiums are being paid, then it may not be necessary to provide specifically for waiver of premium reserves. Any insurer using such a true "active life" basis should carefully consider, however, whether or not additional liability should be recognized on account of premiums waived during periods of disability or during claim continuation.

IDAPA 18 - IDAHO DEPARTMENT OF INSURANCE

18.01.76 - PROPERTY CASUALTY ACTUARIAL OPINION RULE DOCKET NO. 18-0176-0601 (NEW CHAPTER) NOTICE OF RULEMAKING - PROPOSED RULE

AUTHORITY: In compliance with Section 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has initiated proposed rulemaking procedures. The action is authorized pursuant to Title 41, Chapter 2, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is a nontechnical explanation of the substance and purpose of the proposed rulemaking:

A property and casualty insurer's Annual Financial Statement is required to be filed with the Department of Insurance on March 1st. The insurer is also required to submit an Actuarial Opinion on loss and loss adjustment expense reserves. The Actuarial Opinion is a public document. A detailed Actuarial Report including all work papers supporting the Actuarial Opinion is then required to be available for examination by May 1.

The rule, which follows a National Association of Insurance Commissioners' model, was created to require insurers to annually submit to regulators an "Actuarial Opinion Summary" of the Actuarial Report. The summary must provide information on the opining actuary's best estimate or a range of reasonable estimates, and include additional information as required by the NAIC Annual Statement Instructions.

The summary is due shortly after the time the Actuarial Opinion and Financial Statement are filed so regulators can detect companies in need of further investigation in a timely manner. The rule will apply to the 2007 Annual Statement filing.

FEE SUMMARY: The following is a specific description of the fee or charge imposed or increased: N/A

FISCAL IMPACT: The following is a specific description, if applicable, of any fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year. N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because the rule is based on a model developed by the National Association of Insurance Commissioners.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the proposed rule, contact Martha Hopper at (208) 334-4315.

Anyone may submit written comments regarding this proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 28th day of June, 2006.

Shad Priest, Acting Director Idaho Department of Insurance 700 West State Str, 3rd Floor Boise, Idaho 83720-0043 Phone: (208) 334-4250

Fax: (208) 334-4398

THE FOLLOWING IS THE TEXT OF DOCKET NO. 18-0176-0601

IDAPA 18 TITLE 01 CHAPTER 76

18.01.76 - PROPERTY AND CASUALTY ACTUARIAL OPINION RULE

000. This rul Idaho C	e is pron	AUTHORITY. nulgated and adopted pursuant to the authority vested in the Director under Title 41, Chapters 2, ()				
001.	TITLE	AND SCOPE.				
	01.	Title . This rule shall be cited as IDAPA 18.01.76, "Property and Casualty Actuarial Opinion Rule."				
doing b	usiness i	Scope . This rule shall apply to annual statements filed with the Director as of the end of the first r following the effective date of the rule, and shall apply to all property and casualty companies n this State. This rule is intended to provide the Director of the Department of Insurance with to monitor an insurer's loss reserves in accordance with Section 41-610, Idaho Code.				
to the in	dance wi terpretati	TEN INTERPRETATIONS. th Section 67-5201(19)(b)(iv), Idaho Code, this agency may have written statements which pertain on of the rules of the chapter, or to the documentation of compliance with the rules of this chapter. will be available for public inspection and copying in accordance with the public records act. (
Procedu	ninistrativ	IISTRATIVE APPEALS. The appeals shall be governed by Chapter 2, Title 41, Idaho Code, and the Idaho Administrative itle 67, Chapter 52, Idaho Code and IDAPA 04.11.01, "Idaho Rules of Administrative Procedure of eral." ()				
	tional As	PORATION BY REFERENCE. sociation of Insurance Commissioners Property and Casualty Annual Statement Instructions are ted by reference.				
005.	OFFIC	E OFFICE HOURS MAILING ADDRESS, STREET ADDRESS AND WEB SITE.				
and lega	01. al holiday	Office Hours . The Department of Insurance is open from 8 a.m. to 5 p.m. except Saturday, Sunday s.				
83720, 1	02. Boise ID,	Mailing Address . The department's mailing address is: Idaho Department of Insurance, P.O. Box 83720-0043.				
83720-0	03. 0043.	Street Address . The principal place of business is 700 West State Street, 3^{rd} Floor, Boise, Idaho $(\underline{\hspace{1cm}})$				
	04.	Web Site Address. The department's web address is http://www.doi.idaho.gov.				
006. Any rec		C RECORDS ACT COMPLIANCE. ciated with these rules are subject to the provisions of the Idaho Public Records Act, Title 9, Chapter				

	of Insurance Ity Actuarial Opinion Rule	Proposed Rulemaking
3, Idaho Code.		<u>()</u>
007 020.	(RESERVED).	
021. ACTU	ARIAL OPINION OF RESERVES ANI	SUPPORTING DOCUMENTATION.
Appointed Actua	ess otherwise exempted by the domicilian ary entitled "Statement of Actuarial Opin	property and casualty insurance company doing business y commissioner, shall annually submit the opinion of an ion." This opinion shall be filed in accordance with the ers Property and Casualty Annual Statement Instructions.
02.	Actuarial Opinion Summary.	<u>()</u>
Appointed Actua Association of In	tuarial Opinion shall annually submit an ary. This Actuarial Opinion Summary sh asurance Commissioners ("NAIC") Prope	ompany domiciled in this state that is required to submit a Actuarial Opinion Summary, written by the company's all be filed in accordance with the appropriate National rty and Casualty Annual Statement Instructions and shall pinion required in Subsection 021.01 of this chapter.
b. upon request.	A company licensed but not domiciled i	n this state shall provide the Actuarial Opinion Summary
03.	Actuarial Report and Work Papers.	<u>()</u>
a. Casualty Annual	An Actuarial Report and underlying work Statement Instructions shall be prepared to	papers as required by the appropriate NAIC Property and support each Actuarial Opinion.
Actuarial Report Casualty Annual	rector of the Idaho Department of Insurance or work papers provided by the insurance Statement Instructions or are otherwise un- he company to review the opinion and	de a supporting Actuarial Report or work papers at the ce, or, after review, the Director determines the supporting ce company do not comply with the NAIC Property and acceptable, the Director may engage a qualified actuary at the basis for the opinion, and to prepare the supporting
022. CONFI	DENTIALITY.	
01. with the appropridocument.		hall be provided with the Annual Statement in accordance l Statement Instructions and shall be treated as a public ()
02.	Actuarial Report.	()
the opinion, and work papers or A	e considered an Actuarial Report, work par any other material provided by the compar	tion in the possession or control of the Department of pers or Actuarial Opinion Summary provided in support of my to the Director in connection with the Actuarial Report, ered to be exempt from public disclosure under Section 9-
professional disc disclosure of the	ard for Counseling and Discipline (ABC iplinary proceedings and that the ABCD endocuments, nor shall this section be constituted.)	limit the Director's authority to release the documents to D) so long as the material is required for the purpose of stablishes procedures satisfactory to the Director regarding nued to limit the Director's authority to use the documents, but or legal action brought as part of the Director's official

DEPARTMENT OF INSURANCE Property Casulty Actuarial Opinion Rule

Docket No. 18-0176-0601 (New Chapter) Proposed Rulemaking

	03.	Director's Duties. In order to assist in the performance of his duties, the Director may enter	into
agreem	ents gove	verning sharing and use of materials or information subject to Subsection 021.02 of this chapter v	with
other st	ate, feder	eral and international regulatory agencies, with the National Association of Insurance Commission	ners
and its a	affiliates a	s and subsidiaries, and with state, federal and international law enforcement authorities.)
			

04. Waiver. No waiver of any applicable privilege or claim of confidentiality in the documents, materials or information shall occur as a result of disclosure to the director in Section 022 or as a result of sharing as authorized in Subsection 021.03 of this chapter.

023. -- 999. (RESERVED).

IDAPA 18 - IDAHO DEPARTMENT OF INSURANCE

18.01.77 - ACTURARIAL OPINION AND MEMORANDUM RULE

DOCKET NO. 18-0177-0601

NOTICE OF RULEMAKING - PROPOSED RULE

AUTHORITY: In compliance with Section 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has initiated proposed rulemaking procedures. The action is authorized pursuant to Section 41-211, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, not later than August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is a nontechnical explanation of the substance and purpose of the proposed rulemaking:

This rulemaking amends an existing rule that sets forth standards for actuarial opinions and memoranda used by life insurers doing business in Idaho. The amendments conform the rule to standards developed and adopted by the National Association of Insurance Commissioners. The changes include: requiring that all life insurers perform an asset adequacy analysis to demonstrate that they have sufficient reserves to meet expected obligations; providing the Director greater flexibility to accept actuarial opinions based on foreign state laws that meet certain standards; requiring additional information to be included in the actuarial memorandum; requiring a confidential summary of actuarial assumptions and the asset adequacy test; and adding sections to conform to the Office of Administrative Rules format and standards.

FEE SUMMARY: The following is a specific description of the fee or charge imposed or increased: N/A

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year resulting from this rulemaking: N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because the changes are intended to bring the existing rule into conformity with national standards.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the proposed rule, contact Martha Hopper at (208) 334-4315.

Anyone may submit written comments regarding this proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 5th day of July, 2006.

Shad Priest, Acting Director Idaho Department of Insurance 700 West State Str, 3rd Floor Boise, Idaho 83720-0043 Phone: (208) 334-4250 Fax: (208) 334-4398

Tux. (200) 551 1570

THE FOLLOWING IS THE TEXT OF DOCKET NO. 19-0177-0601

001. TITLE AND SCOPE.

- **O2. Application to All Annual Statements**. This rule shall be applicable to all annual statements filed with the office of the Director after the effective date. *Except with respect to companies which are exempted pursuant to Section 006*, A statement of opinion on the adequacy of the reserves and related actuarial items based on an asset adequacy analysis in accordance with Section 00822 of this chapter, and a memorandum in support thereof in accordance with Section 00923 of this chapter, shall be required each year. *Any company so exempted must file a statement of actuarial opinion pursuant to Section 007*.
- 03. Statement of Actuarial Opinion. Notwithstanding the foregoing, the Director may require any company otherwise exempt pursuant to this rule to submit a statement of actuarial opinion and to prepare a memorandum in support thereof in accordance with Sections 008 and 009 if, in the opinion of the Director, an asset adequacy analysis is necessary with respect to the company.

 (7-1-97)
 - **043. Purpose**. The purpose of this rule is to prescribe.:

(7-1-97)

- **a.** Guidelines and standards for statements of actuarial opinion which are to be submitted in accordance with Section 41-612(12), Idaho Code, and for memoranda in support thereof; (7-1-97)
- **b.** Guidelines and standards for statements of actuarial opinion which are to be submitted when a company is exempt from Section 41-612(12), Idaho Code, and (7-1-97)
 - **eb.** Rules applicable to the appointment of an appointed actuary: and

(7-1-97)()

c. Guidelines as to the meaning of adequacy of reserves.

002. WRITTEN INTERPRETATIONS.

There are no written interpretations of these rules. In accordance with Section 67-5201(19)(b)(iv), Idaho Code, this agency may have written statements which pertain to the interpretation of the rules of the chapter, or to the documentation of compliance with the rules of this chapter. These documents will be available for public inspection and copying in accordance with the public records act.

(7-1-97)(____)

003. ADMINISTRATIVE APPEALS.

All contested cases shall be governed by the provisions of administrative appeals shall be governed by Chapter 2, Title 41, Idaho Code, and the Idaho Administrative Procedure Act, Title 67, Chapter 52, Idaho Code, and IDAPA 04.11.01, "Idaho Rules of Administrative Procedure of the Attorney General."

<u>004.</u> <u>INCORPORATED BY REFERENCE.</u>

There are no documents incorporated by reference.

005. OFFICE -- OFFICE HOURS -- MAILING ADDRESS, STREET ADDRESS AND WEB SITE.

- **01.** Office Hours. The Department of Insurance is open from 8 a.m. to 5 p.m. except Saturday, Sunday and legal holidays.
- <u>02.</u> <u>Mailing Address.</u> The department's mailing address is: Idaho Department of Insurance, P.O. Box 83720, Boise, ID 83720-0043.

<u>83702-0</u>	03. 0043.	Street Address. The principal place of business is 700 West State Street, 3rd Floor, Boise, Ida	<u>ho</u>)
	<u>04.</u>	Web Site Address. The department's web address is http://www.doi.idaho.gov.	_)
006. Any rec 3, Idaho	ords assoc	C RECORDS ACT COMPLIANCE. ciated with these rules are subject to the provisions of the Idaho Public Records Act, Title 9, Chap	ter)
<u>007</u>	<u>009.</u>	(RESERVED).	
0 04 10.	DEFINI	TIONS.	
		Actuarial Opinion. The opinion of an Appointed Actuary regarding the adequacy of the reservated items based on an asset adequacy test in accordance with Section 022 of this chapter and well declarated Actuarial Standards.	
		With respect to Sections 008, 009 or 010, the opinion of an Appointed Actuary regarding to eserves and related actuarial items based on an asset adequacy test in accordance with Section 0 y accepted Actuarial Standards;	80
		With respect to Section 007, the opinion of an Appointed Actuary regarding the calculation ted items, in accordance with Section 007 and with those presently accepted Actuarial Standary relate to this opinion. (7-1-5)	rds
develop		Actuarial Standards Board . The board established by the American Academy of Actuaries aulgate standards of actuarial practice. (7-1-9)	
compan		Annual Statement . Statement required by Section 41-335 of the Idaho Code to be filed by to office of the Director annually. (7-1-9)	
		Appointed Actuary . Any individual who is appointed or retained in accordance with t forth in Subsection $0\theta 521.03$, of the chapter to provide the actuarial opinion and supporting required by Section 41-612(12) of the Idaho Code. (7-1-97)(ng
		Asset Adequacy Analysis. An analysis that meets the standards and other requirements referred 521.04 of this chapter. It may take many forms, including, but not limited to, cash flow testing or applications of risk theory. (7-1-97)(
	06.	Director. The Director of the Idaho Department of Insurance. (7-1-9)	97)
of this r	07. ule.	Company . A life insurance company, fraternal benefit society or reinsurer subject to the provision (7-1-9)	
Valuatio	08. on Office.	Non-Investment Grade Bonds. Those designated as classes 3, 4, 5 or 6 by the NAIC Securit.	ies)7)
of this c	09. chapter.	Qualified Actuary . Any individual who meets the requirements set forth in Subsection 00521 . $(7-1-97)$ (
<u>011 (</u>	<u>)20.</u>	(RESERVED).	
0 05 <u>21</u> .	GENER	AL REQUIREMENTS.	
	01.	Submission of Statement of Actuarial Opinion. (7-1-9) 7)

- a. There is to be included on or attached to Page one (1) of the annual statement for each year beginning with the year in which this rule becomes effective the statement of an appointed actuary, entitled "Statement of Actuarial Opinion," setting forth an opinion relating to reserves and related actuarial items held in support of policies and contracts, in accordance with Section 008;22 of this chapter provided, however, that any company exempted pursuant to Section 006 from submitting a statement of actuarial opinion in accordance with Section 008 shall include on or attach to Page one (1) of the annual statement a statement of actuarial opinion rendered by an appointed actuary in accordance with Section 007.
- b. If in the previous year a company provided a statement of actuarial opinion in accordance with Section 007, and in the current year fails the exemption criteria of Subsections 006.03.a., 006.03.b., or 006.03.e. to again provide an actuarial opinion in accordance with Section 007, the statement of actuarial opinion in accordance with Section 008 shall not be required until August 1 following the date of the annual statement. In this instance, the company shall provide a statement of actuarial opinion in accordance with Section 007 with appropriate qualification noting the intent to subsequently provide a statement of actuarial opinion in accordance with Section 008.
- e. In the case of a statement of actuarial opinion required to be submitted by a foreign or alien company, the Director may accept the statement of actuarial opinion filed by such company with the insurance supervisory regulator of another state if the Director determines that the opinion reasonably meets the requirements applicable to a company domiciled in this State.

 (7-1-97)
- **4b.** Upon written request by the company, the Director may grant an extension of the date for submission of the statement of actuarial opinion. (7-1-97)
 - **02. Qualified Actuary**. An individual who:

- (7-1-97)
- **a.** Is a member in good standing of the American Academy of Actuaries; and
- (7-1-97)
- **b.** Is qualified to sign statements of actuarial opinion for life and health insurance company annual statements in accordance with the American Academy of Actuaries qualification standards for actuaries signing such statements; and (7-1-97)
 - **c.** Is familiar with the valuation requirements applicable to life and health insurance companies; and (7-1-97)
- i. Violated any provision of, or any obligation imposed by any law in the course of his dealings as a qualified actuary; or (7-1-97)
 - ii. Been found guilty of fraudulent or dishonest practices; or (7-1-97)
- iii. Demonstrated his incompetency, lack of cooperation, or untrustworthiness to act as a qualified actuary; or (7-1-97)
- iv. Submitted to the Director during the past five (5) years, pursuant to this rule, an actuarial opinion or memorandum that the Director rejected because it did not meet the provisions including standards set by the Actuarial Standards Board; or (7-1-97)
- v. Resigned or been removed as an actuary within the past five (5) years as a result of acts or omissions indicated in any adverse report on examination or as a result of failure to adhere to generally acceptable actuarial standards; and

 (7-1-97)
- e. Has not failed to notify the Director of any action taken by any Director of any other state similar to that under Subsection 0.0521.02.d. of this chapter. (7-1-97)(____)

- - **O4.** Standards for Asset Adequacy Analysis. The asset adequacy analysis required by this rule: (7-1-97)
- a. Shall conform to the Standards of Practice as promulgated by the Actuarial Standards Board and on any additional standards under this rule, which standards are to form the basis of the statement of actuarial opinion in accordance with Section 00821 of this chapter; and (7-1-97)(_____)
- **b.** Shall be based on methods of analysis as are deemed appropriate for such purposes by the Actuarial Standards Board. (7-1-97)

05. Liabilities to Be Covered.

(7-1-97)

- a. Under authority of Section 41-612(12), Idaho Code, the statement of actuarial opinion shall apply to all in force business on the statement date regardless of when or where issued, e.g., *reserves of Exhibits 8, 9 and 10* Aggregate Reserve for Life Contracts, Aggregate Reserve for Accident and Health Contracts, reserves for Deposit Type Contracts, and Claims for Life and Health Contracts as reported in Exhibits of the annual statement, *and claim liabilities in Exhibit 11, Part I* and equivalent items in the separate account statement or statements of the annual statement.
- **b.** If the appointed actuary determines as the result of asset adequacy analysis that a reserve should be held in addition to the aggregate reserve held by the company and calculated in accordance with methods set forth in Section 41-612(12), Idaho Code, the company shall establish such additional reserve. (7-1-97)
- e: For years ending prior to December 31, 1998, the company may, in lieu of establishing the full amount of the additional reserve in the annual statement for that year, set up an additional reserve in an amount not less than the following.

 (7-1-97)
 - i. December 31, 1996: The additional reserve divided by three (3). (7-1-97)
 - ii. December 31, 1997: Two (2) times the additional reserve divided by three (3). (7-1-97)
- **4c.** Additional reserves established under Subsections 0.0521.05.a. or 0.0521.05.b. of this chapter and deemed not necessary in subsequent years may be released. Any amounts released must be disclosed in the actuarial opinion for the applicable year. The release of such reserves would not be deemed an adoption of a lower standard of valuation.

006. REQUIRED OPINIONS.

- **61.** General. In accordance with Section, Idaho Code, every company doing business in this State shall annually submit the opinion of an appointed actuary as provided for by this rule. The type of opinion submitted shall be determined by the provisions set forth in Section 006 and shall be in accordance with the applicable provisions in this rule.

 (7-1-97)
- 02. Company Categories. For purposes of this rule, companies shall be classified as follows based on the admitted assets as of the end of the calendar year for which the actuarial opinion is applicable. (7-1-97)

- **a.** Category A shall consist of those companies whose admitted assets do not exceed twenty (\$20) million dollars;
- **b.** Category B shall consist of those companies whose admitted assets exceed twenty (\$20) million but do not exceed one hundred (\$100) million dollars; (7-1-97)
- e: Category C shall consist of those companies whose admitted assets exceed one hundred (\$100) million but do not exceed five hundred (\$500) million dollars; (7-1-97)
- **d.** Category D shall consist of those companies whose admitted assets exceed five hundred (\$500) million dollars.

03. Exemption Eligibility Tests.

(7-1-97)

- **a.** Any Category A company that, for any year beginning with the year in which this rule becomes effective, meets all of the following criteria shall be eligible for exemption from submission of a statement of actuarial opinion in accordance with Section 008 for the year in which these criteria are met. The ratios in Subsections 006.03.a.i., 006.03.a.ii., and 006.03.a.iii. shall be calculated based on amounts as of the end of the calendar year for which the actuarial opinion is applicable.
- i. The ratio of the sum of capital and surplus to the sum of cash and invested assets is at least equal to one tenth (.1).
- ii. The ratio of the sum of the reserves and liabilities for annuities and deposits to the total admitted assets is less than three tenths (.3).

 (7-1-97)
- iii. The ratio of the book value of the non-investment grade bonds to the sum of capital and surplus is less than five tenths (.5). (7-1-97)
- iv: The Examiner Team for the National Association of Insurance Directors (NAIC) has not designated the company as a first priority company in any of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or a second priority company in each of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or the company has resolved the first or second priority status to the satisfaction of the Director of the state of domicile and the Director has so notified the chair of the NAIC Life and Health Actuarial Task Force and the NAIC Staff and Support Office.
- b. Any Category B company that, for any year beginning with the year in which this rule becomes effective, meets all of the following criteria shall be eligible for exemption from submission of a statement of actuarial opinion in accordance with Section 008 for the year in which the criteria are met. The ratios in Subsections 006.03.b.i, ii, and iii shall be calculated based on amounts as of the end of the calendar year for which the actuarial opinion is applicable.

 (7-1-97)
- i. The ratio of the sum of capital and surplus to the sum of cash and invested assets is at least equal to seven one hundredths (.07).
- ii. The ratio of the sum of the reserves and liabilities for annuities and deposits to the total admitted assets is less than four tenths (.4).

 (7-1-97)
- iii. The ratio of the book value of the non-investment grade bonds to the sum of capital and surplus is less than five tenths (.5). (7-1-97)
- iv: The Examiner Team for the National Association of Insurance Directors (NAIC) has not designated the company as a first priority company in any of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or a second priority company in each of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or the company has resolved the first or second priority status to the satisfaction of the Director of the state of domicile and the Director has so notified the chair of the NAIC Life and Health Actuarial Task Force and the NAIC Staff and Support Office.

- e. Any Category A or Category B company that meets all of the criteria set forth in Subsection 006.03.a. or 006.03.b., whichever is applicable, is exempted from submission of a statement of actuarial opinion in accordance with Section 008 unless the Director specifically indicates to the company that the exemption is not to be taken.
- d. Any Category A or Category B company that, for any year beginning with the year in which this rule becomes effective, is not exempted under Subsection 006.03.c. shall be required to submit a statement of actuarial opinion in accordance with Section 008 for the year for which it is not exempt.

 (7-1-97)
- e. Any Category C company that, after submitting an opinion in accordance with Section 008, meets all of the following criteria shall not be required, unless required in accordance with Subsection 006.03.f., to submit a statement of actuarial opinion in accordance with Section 008 more frequently than every third year. Any Category C company which fails to meet all of the following criteria for any year shall submit a statement of actuarial opinion in accordance with Section 008 for that year. The ratios in Subsections 006.03.e.i., 006.03.e.ii., and 006.03.e.iii. shall be calculated based on amounts as of the end of the calendar year for which the actuarial opinion is applicable.

(7-1-97)

- i. The ratio of the sum of capital and surplus to the sum of cash and invested assets is at least equal to five one hundredths (.05).
- ii. The ratio of the sum of the reserves and liabilities for annuities and deposits to the total admitted assets is less than five tenths (.5). (7-1-97)
- iii. The ratio of the book value of the non-investment grade bonds to the sum of the capital and surplus is less than five tenths (.5). (7-1-97)
- iv. The Examiner Team for the National Association of Insurance Directors (NAIC) has not designated the company as a first priority company in any of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or a second priority company in each of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or the company has resolved the first or second priority status to the satisfaction of the Director of the state of domicile and the Director has so notified the chair of the NAIC Life and Health Actuarial Task Force and the NAIC Staff and Support Office.
- f. Any company which is not required by Section 006 to submit a statement of actuarial opinion in accordance with Section 008 for any year, shall submit a statement of actuarial opinion in accordance with Section 007 for that year unless as provided for by Subsection 001.02 the Director requires a statement of actuarial opinion in accordance with Section 008.

 (7-1-97)
- 04. Large Companies. Every Category D company shall submit a statement of actuarial opinion in accordance with Section 008 for each year beginning with the year in which this rule becomes effective. (7-1-97)

007. STATEMENT OF ACTUARIAL OPINION NOT INCLUDING AN ASSET ADEQUACY ANALYSIS.

- Off. General Description. The statement of actuarial opinion required by this section shall consist of a paragraph identifying the appointed actuary and his qualifications; a regulatory authority paragraph stating that the company is exempt pursuant to this rule from submitting a statement of actuarial opinion based on an asset adequacy analysis and that the opinion, which is not based on an asset adequacy analysis, is rendered in accordance with Section 007; a scope paragraph identifying the subjects on which the opinion is to be expressed and describing the scope of the appointed actuary's work; and an opinion paragraph expressing the appointed actuary's opinion as required by Section 41-612(12), Idaho Code.
- 02. Recommended Language. The following language provided is that which in typical circumstances would be included in a statement of actuarial opinion in accordance with Section 007. The language may be modified as needed to meet the circumstances of a particular case, but the appointed actuary should use language which clearly expresses his her professional judgment. However, in any event the opinion shall retain all pertinent aspects of

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the language provided in Section 007.

(7-1-97)

- **a.** The opening paragraph should indicate the appointed actuary's relationship to the company. For a company actuary, the opening paragraph of the actuarial opinion should read as follows:
- "I, [name of actuary], am [title] of [name of company] and a member of the American Academy of Actuaries. I was appointed by, or by the authority of, the Board of Directors of said insurer to render this opinion as stated in the letter to the Director dated [insert date]. I meet the Academy qualification standards for rendering the opinion and am familiar with the valuation requirements applicable to life and health companies."

 (7-1-97)
- i. For a consulting actuary, the opening paragraph of the actuarial opinion should contain a sentence such as:
- "I, [name and title of actuary], a member of the American Academy of Actuaries, am associated with the firm of [insert name of consulting firm]. I have been appointed by, or by the authority of, the Board of Directors of [name of company] to render this opinion as stated in the letter to the Director dated [insert date]. I meet the Academy qualification standards for rendering the opinion and am familiar with the valuation requirements applicable to life and health insurance companies."
 - b. The regulatory authority paragraph should include a statement such as the following:
- "Said company is exempt pursuant to rule [insert designation] of the [name of state] Insurance Department from submitting a statement of actuarial opinion based on an asset adequacy analysis. This opinion, which is not based on an asset adequacy analysis, is rendered in accordance with Section 007."
 - e. The scope paragraph should contain a sentence such as the following:
- "I have examined the actuarial assumptions and actuarial methods used in determining reserves and related actuarial items listed below, as shown in the annual statement of the company, as prepared for filing with state regulatory officials, as of December 31, 20[]."
- The scope paragraph should list items and amounts with respect to which the appointed actuary is expressing an opinion. The list should include but not be necessarily limited to.

 (7-1-97)
- i. Aggregate reserve and deposit funds for policies and contracts included in Exhibit 8 of the annual statement; (7-1-97)
- ii. Aggregate reserve and deposit funds for policies and contracts included in Exhibit 9 of the annual statement; (7-1-97)
- iii. Deposit funds, premiums, dividend and coupon accumulations and supplementary contracts not involving life contingencies included Exhibit 10 of the annual statement; and (7-1-97)
- iv. Policy and contract claims-liability end of current year included in Exhibit 11, Part I of the annual statement.

 (7-1-97)
- **d.** If the appointed actuary has examined the underlying records, the scope paragraph should also include the following:
- "My examination included such review of the actuarial assumptions and actuarial methods and of the underlying basic records and such tests of the actuarial calculations as I considered necessary." (7-1-97)
- e: If the appointed actuary has not examined the underlying records, but has relied upon listings and summaries of policies in force prepared by the company or a third party, the scope paragraph should include a sentence such as one of the following:
- "I have relied upon listings and summaries of policies and contracts and other liabilities in force prepared by [name

and title of company officer certifying in force records] as certified in the attached statement. (See accompanying affidavit by a company officer.) In other respects my examination included review of the actuarial assumptions and actuarial methods and such tests of the actuarial calculations as I considered necessary."; or

"I have relied upon [name of accounting firm] for the substantial accuracy of the in force records inventory and information concerning other liabilities, as certified in the attached statement. In other respects my examination included review of the actuarial assumptions and actuarial methods and such tests of the actuarial calculations as I considered necessary."

- i. The statement of the person certifying shall follow the form indicated by Subsection 007.02.j.

 (7-1-97)
- f: The opinion paragraph should include the following:

"In my opinion the amounts carried in the balance sheet on account of the actuarial items identified above:

- (a) Are computed in accordance with those presently accepted actuarial standards which specifically relate to the opinion required under this section;
- (b) Are based on actuarial assumptions which produce reserves at least as great as those called for in any contract provision as to reserve basis and method, and are in accordance with all other contract provisions;
- (c) Meet the requirements of the Insurance Law and rules of the state of [state of domicile] and are at least as great as the minimum aggregate amounts required by the state in which this statement is filed.
- (d) Are computed on the basis of assumptions consistent with those used in computing the corresponding items in the annual statement of the preceding year-end with any exceptions as noted below; and
- (e) Include provision for all actuarial reserves and related statement items which ought to be established.

The actuarial methods, considerations and analyses used in forming my opinion conform to the appropriate Compliance Guidelines as promulgated by the Actuarial Standards Board, which guidelines form the basis of this statement of opinion."

(7-1-97)

g. The concluding paragraph should document the eligibility for the company to provide an opinion as provided by this Section 007. It shall include the following:

"This opinion is provided in accordance with Section 007 of the NAIC Actuarial Opinion and Memorandum rule. As such it does not include an opinion regarding the adequacy of reserves and related actuarial items when considered in light of the assets which support them.

Eligibility for Section 007 is confirmed as follows:

- (a) The ratio of the sum of capital and surplus to the sum of cash and invested assets is [insert amount], which equals or exceeds the applicable criterion based on the admitted assets of the company (Subsection 006.03).
- (b) The ratio of the sum of the reserves and liabilities for annuities and deposits to the total admitted assets is [insert amount], which is less than the applicable criteria based on the admitted assets of the company (Subsection 006.03).
- (c) The ratio of the book value of the non-investment grade bonds to the sum of capital and surplus is [insert amount], which is less than the applicable criteria of .50.
- (d) To my knowledge, the NAIC Examiner Team has not designated the company as a first priority company in any of the two (2) calendar years preceding the calendar year for which the actuarial opinion is

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applicable, or a second priority company in each of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable or the company has resolved the first or second priority status to the satisfaction of the commissioner of the state of domicile.

(e) To my knowledge there is not a specific request from any Director requiring an asset adequacy talysis opinion.
ignature of Appointed Actuary
ddress of Appointed Actuary
elephone Number of Appointed Actuary" (7-1-97)
h: If there has been any change in the actuarial assumptions from those previously employed, that trange should be described in the annual statement or in a paragraph of the statement of actuarial opinion, and the of the statement of actuarial opinion and the opinion is actuarial opinion.
with the exception of the change described on Page [] of the annual statement (or in the preceding paragraph)." (7-1-97)
i. The adoption for new issues or new claims or other new liabilities of an actuarial assumption hich differs from a corresponding assumption used for prior new issues or new claims or other new liabilities is not change in actuarial assumptions within the meaning of this paragraph. (7-1-97)
j. If the appointed actuary is unable to form an opinion, he shall refuse to issue a statement of etuarial opinion. If the appointed actuary's opinion is adverse or qualified, he shall issue an adverse or qualified etuarial opinion explicitly stating the reason(s) for such opinion. This statement should follow the scope paragraph of precede the opinion paragraph. (7-1-97)
k. If the appointed actuary does not express an opinion as to the accuracy and completeness of the stings and summaries of policies in force, there should be attached to the opinion, the statement of a company (ficer or accounting firm who prepared such underlying data similar to the following:
I [name of officer], [title] of [name and address of company or accounting firm], hereby affirm that the listings and immaries of policies and contracts in force as of December 31, 19[-], prepared for and submitted to [name of oppointed actuary], were prepared under my direction and, to the best of my knowledge and belief, are substantially recurate and complete.
gnature of the Officer of the Company - Accounting Firm
ddress of the Officer of the Company *Accounting Firm
elephone Number of the Officer of the ompany or Accounting Firm"

(7-1-97)

00822. STATEMENT OF ACTUARIAL OPINION BASED ON AN ASSET ADEQUACY ANALYSIS.

- 01. General Description. The statement of actuarial opinion submitted in accordance with this section shall consist of .; (7-1-97)(_ A paragraph identifying the appointed actuary and his qualifications (see Subsection 00822.02.a. of Я. this chapter); (7-1-97)b. A scope paragraph identifying the subjects on which an opinion is to be expressed and describing the scope of the appointed actuary's work, including a tabulation delineating the reserves and related actuarial items which have been analyzed for asset adequacy and the method of analysis, (see Subsection 0θ 822.02.b. of this chapter) and identifying the reserves and related actuarial items covered by the opinion which have not been so analyzed; A reliance paragraph describing those areas, if any, where the appointed actuary has deferred to c. other experts in developing data, procedures or assumptions, (e.g., anticipated cash flows from currently owned assets, including variation in cash flows according to economic scenarios (see Subsection 00822.02.c. of this <u>chapter</u>), supported by a statement of each such expert in the form prescribed by Subsection 00822.05 of this chapter; (7-1-97)(^{*} and An opinion paragraph expressing the appointed actuary's opinion with respect to the adequacy of the supporting assets to mature the liabilities (see Subsection 00822.02.f. of this chapter). One (1) or more additional paragraphs will be needed in individual company cases as follows: e. (7-1-97)(____ i. If the appointed actuary considers it necessary to state a qualification of his opinion; (7-1-97)ii. If the appointed actuary must disclose the method of aggregation for reserves of different products or lines of business for asset adequacy analysis; (7-1-97)If the appointed actuary must disclose reliance upon any portion of the assets supporting the Asset Valuation Reserve (AVR), Interest Maintenance Reserve (IMR) or other mandatory or voluntary statement of reserves (7-1-97)for asset adequacy analysis. If the appointed actuary must disclose an inconsistency in the method of analysis or basis of asset allocation used at the prior opinion date with that used for this opinion-; (7-1-97)(viii. If the appointed actuary must disclose whether additional reserves of the prior opinion date are released as of this opinion date, and the extent of the release.; or (7-1-97)If the appointed actuary chooses to add a paragraph briefly describing the assumptions which form
- **Recommended Language.** The following paragraphs are to be included in the statement of actuarial opinion in accordance with this section. Language is that which in typical circumstances should be included in a statement of actuarial opinion. The language may be modified as needed to meet the circumstances of a particular case, but the appointed actuary should use language which clearly expresses his professional judgment. However, in any event the opinion shall retain all pertinent aspects of the language provided in this section.
- The opening paragraph should generally indicate the appointed actuary's relationship to the company and his qualifications to sign the opinion. For a company actuary, the opening paragraph of the actuarial opinion should read as follows:
- "I, [name], am [title] of [insurance company name] and a member of the American Academy of Actuaries. I was

the basis for the actuarial opinion.

(7-1-97)

appointed by, or by the authority of, the Board of Directors of said insurer to render this opinion as stated in the letter to the Director dated [insert date]. I meet the Academy qualification standards for rendering the opinion and am familiar with the valuation requirements applicable to life and health insurance companies."

For a consulting actuary, the opening paragraph should contain a sentence such as:

"I, [name], a member of the American Academy of Actuaries, am associated with the firm of [name of consulting firm]. I have been appointed by, or by the authority of, the Board of Directors of [name of company] to render this opinion as stated in the letter to the Director dated [insert date]. I meet the Academy qualification standards for rendering the opinion and am familiar with the valuation requirements applicable to life and health insurance companies."

b. The scope paragraph should include a statement such as the following:

"I have examined the actuarial assumptions and actuarial methods used in determining reserves and related actuarial items listed below, as shown in the annual statement of the company, as prepared for filing with state regulatory officials, as of December 31, 19[]. Tabulated below are those reserves and related actuarial items which have been subjected to asset adequacy analysis.

TABLE 00822.02.b.

	Asset Adequacy Tested Amounts			Reserves and Liabilities		
	Statement Item	Formula Reserves (1)	Additional Actuarial Reserves (a) (2)	Analysis Method (b)	Other Amount (3)	Total Amount (1)+(2)+(3) (4)
A	Exhibit # 5 Life Insurance					
₽	Annuities					
G	Supplementary Contracts Involving Life Contingencies					
Đ	Accidental Death Benefit					
€	Disability - Active					
F	Disability - Disabled					
G	Miscellaneous					
	Total (Exhibit 8 5 Item 1, Page 3)					
A	Exhibit 9 6 Active Life Reserve					
₽	Claim Reserve					
	Total (Exhibit 9 6 Item 2, Page 3)					
4	Exhibit 40 7 Premiums and Other Deposit Funds (Column 6, Line 14)					
1.1	Policyholder Premiums (Page 3, Line 10.1)					

	Asset Adequacy Tested Amounts			Reserves and Liabilities		
	Statement Item	Formula Reserves (1)	Additional Actuarial Reserves (a) (2)	Analysis Method (b)	Other Amount (3)	Total Amount (1)+(2)+(3) (4)
1.2	Guaranteed Interest Contracts (Page 3, Line 10.2) (Column 2, Line 14)					
1.3	Other Contract Deposit Funds (Page 3, Line 10.3) Annuities Certain (Column 3, Line 14)					
2	Supplementa ry ! Contracts Not Involving Life Contingencies (Page 3, Line 3) (Column 4, Line 14)					
3	Dividend and Coupon Accumulations (Page 3, Line 5) <u>or</u> Refunds (Column 5, Line 14)					
	Total Exhibit 40 7					
4	Exhibit 44 8 Part 1 Life (Page 3, Line 4.1)					
2	Health (Page 3,Line 4.2)					
	Total Exhibit 41 8, Part 1					
	Separate Accounts (Page 3, Line 27)					
	TOTAL RESERVES					
	IMR (<u>General Account.</u> Page					
	IMR (General Account, Page Line)					
	AVR (Page Line)	(c)				
	Net Deferred and Uncollected Premiums					

Notes:

- (a) The additional actuarial reserves are the reserves established under Subsection 00521.05.b. or 00521.05.c. of this chapter.
- (b) The appointed actuary should indicate the method of analysis, determined in accordance with the standards for asset adequacy analysis referred to in Subsection 00521.04 of this chapter, by means of symbols which should be defined in footnotes to the table.

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- **c.** If the appointed actuary has relied on other experts to develop certain portions of the analysis, the reliance paragraph should include a statement such as the following:
- "I have relied on [name], [title] for [e.g., anticipated cash flows from currently owned assets, including variations in cash flows according to economic scenarios or certain critical aspects of the analysis performed in conjunction with forming my opinion]—and, as certified in the attached statement,..... I have reviewed the information relied upon for reasonableness."; or
- "I have relied on personnel as cited in the supporting memorandum for certain critical aspects of the analysis in reference to the accompanying statement." (7-1-97)(____)
- **d.** If the appointed actuary has examined the underlying asset and liability records, the reliance paragraph should also include the following:
- **e.** If the appointed actuary has not examined the underlying records, but has relied upon listings and summaries of policies in force and/or asset records prepared by the company or a third party, the reliance paragraph should include a sentence such as:
- "In forming my opinion on [specify types of reserves] I have relied upon listings and summaries [of policies and contracts, of asset records] data prepared by [name and title of company officer certifying in-force records or other data] as certified in the attached statement. I evaluated that data for reasonableness and consistency. I also reconciled that data to [exhibits and schedules to be listed as applicable] of the company's current annual statement. In other respects my examination included such review of the actuarial assumptions and actuarial methods and such tests of the actuarial calculations as I considered necessary."; or
- "I have relied upon [name of accounting firm] for the substantial accuracy of the in-force records inventory and information concerning other liabilities, as certified in the attached statement. In other respects my examination included review of the actuarial assumptions and actuarial methods and tests of the actuarial calculations as I considered necessary."
- i. Such a section must be accompanied by a statement by each person relied upon of the form prescribed by Subsection 00822.05 of this chapter. (7-1-97)(_____)
 - **f.** The opinion paragraph should include the following:
- "In my opinion the reserves and related actuarial values concerning the statement items identified above:
- (a) Are computed in accordance with presently accepted actuarial standards consistently applied and are fairly stated, in accordance with sound actuarial principles;
- (b) Are based on actuarial assumptions which produce reserves at least as great as those called for in any contract provision as to reserve basis and method, and are in accordance with all other contract provisions;
- (c) Meet the requirements of the Insurance Law and rule of the state of [state of domicile] and are at least as great as the minimum aggregate amounts required by the state in which this statement is filed.
- (d) Are computed on the basis of assumptions consistent with those used in computing the corresponding items in the annual statement of the preceding year-end (with any exceptions noted below);

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(e) Include provision for all actuarial reserves and related statement items which ought to be established.

The reserves and related items, when considered in light of the assets held by the company with respect to such reserves and related actuarial items including, but not limited to, the investment earnings on such assets, and the considerations anticipated to be received and retained under such policies and contracts, make adequate provision, according to presently accepted actuarial standards of practice, for the anticipated cash flows required by the contractual obligations and related expenses of the company.

The actuarial methods, considerations and analyses used in forming my opinion conform to the appropriate Standards of Practice as promulgated by the Actuarial Standards Board, which standards form the basis of this statement of opinion.

This opinion is updated annually as required by statute. To the best of my knowledge, there have been no material changes from the applicable date of the annual statement to the date of the rendering of this opinion which should be considered in reviewing this opinion."; or

"The following material change(s) which occurred between the date of the statement for which this opinion is applicable and the date of this opinion should be considered in reviewing this opinion: (Describe the change or changes.)

Note: Choose one (1) of the above two (2) paragraphs, whichever is applicable.

The impact of unanticipated events subsequent to the date of this opinion is beyond the scope of this opinion. The analysis of asset adequacy portion of this opinion should be viewed recognizing that the company's future experience may not follow all the assumptions used in the analysis.

Signature of Appointed Actuary	_
Address of Appointed Actuary	
Telephone Number of Appointed Actuary"	

(7-1-97)()

- **04. Adverse Opinions**. If the appointed actuary is unable to form an opinion, then he shall refuse to issue a statement of actuarial opinion. If the appointed actuary's opinion is adverse or qualified, then he shall issue an adverse or qualified actuarial opinion explicitly stating the reason(s) for such opinion. This statement should follow the scope paragraph and precede the opinion paragraph. (7-1-97)
- O5. Reliance on Data Furnished by Other Persons. If the appointed actuary does not express an opinion as to the accuracy and completeness of the listings and summaries of policies in force and/or asset oriented information, there shall be attached to the opinion the statement of a company officer or accounting firm who prepared such underlying data similar to the following: If the appointed actuary relies on the certification of others on matters concerning the accuracy or completeness of any data underlying the actuarial opinion, or the appropriateness of any other information used by the appointed actuary in forming the actuarial opinion, the actuarial opinion should so indicate the persons the actuary is relying upon and a precise identification of the items subject to reliance. In addition, the persons on whom the appointed actuary relies shall provide a certification that precisely identifies the items on which the person is providing information and a statement as to the accuracy, completeness or

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reasonableness, as applicable, of the items. This certification shall include the signature, title, company, address and telephone number of the person rendering the certification, as well as the date on which it is signed.

telephone number of the person rendering the certification, as well as the date on which it is signed.	
"I [name of officer], [title], of [name of company or accounting firm], hereby affirm that the listings and sums of policies and contracts in force as of December 31, 19[], and other liabilities prepared for and submitted to of appointed actuary] were prepared under my direction and, to the best of my knowledge and belief, are substanceurate and complete.	[name
Signature of the Officer of the Company or Accounting Firm	
Address of the Officer of the Company or Accounting Firm	
Telephone Number of the Officer of the Company or Accounting Firm"; or	
"I, [name of officer], [title] of [name of company, accounting firm, or security analyst], hereby affirm th listings, summaries and analyses relating to data prepared for and submitted to [name of appointed actual support of the asset-oriented aspects of the opinion were prepared under my direction and, to the best knowledge and belief, are substantially accurate and complete.	ry] ir
Signature of the Officer of the Company, Accounting Firm or the Security Analyst	
Address of the Officer of the Company, Accounting Firm or the Security Analyst	
Telephone Number of the Officer of the Company, Accounting Firm or the Security Analyst" (7-1-97)	,
023. ALTERNATE OPTION.	
01. Standard Valuation Law. The Standard Valuation Law gives the Director broad author accept the valuation of a foreign insurer when that valuation meets the requirements applicable to a condomiciled in this state in the aggregate. As an alternative to the requirements of Subsection 022.02.f.(c) chapter, the Director may make one or more of the following additional approaches available to the opining act	npany of this
<u>a.</u> A statement that the reserves "meet the requirements of the insurance laws and regulations State of [state of domicile] and the formal written standards and conditions of this state for filing an opinion bat the law of the state of domicile." If the Director chooses to allow this alternative, a formal written list of star and conditions shall be made available. If a company chooses to use this alternative, the standards and conditions of the state of domicile. If a company chooses to use this alternative, the standards and conditions of the state of domicile of state and conditions shall be made available. If a company chooses to use this alternative, the standards and conditions of the state of domicile of state of domicile of the	sed or ndards ons ir

State of state of domic state of domicile has be been met." If the Dire- issued no later than Ma Director. The rescissio Subsequent to that sta- request to do so, along	tement that the reserved cile] and I have verified een approved and that an ctor chooses to allow the arch 31 of the year it is n or modifications shall tement being issued, if with justification for its d approved on October 1	that the company's rec by conditions required by his alternative, a formation of the first effective. It shall receive the be issued no later that a company chooses to be use, no later than Apr	quest to file an opinion by the Director for appro- I written statement of stemain valid until rescin m March 31 of the year ouse this alternative, the fil 30 of the year of the	based on the law of the oval of that request have such allowance shall be deed or modified by the they are first effective are company shall file a opinion to be filed. The
State of state of domic i. If the table in Item (ii) below to use this alternative, t	e Director chooses to allo for which the required he list in effect on July 1 until it is revised or rev	d the required comparison this alternative, a for comparison shall be presented to a calendar year year year year year year year ye	son as specified by this rmal written list of prod ovided will be published Il apply to statements for	state." (lucts (to be added to the d. If a company chooses r that calendar year, and
gross nationwide rese standards. Gross nation	ompany desires to use the gross held to the gross wide reserves are the to ifferent to the state in whall be at least:	nationwide reserves total reserves calculated	<u>that would be held un</u> for the total company in	der NAIC codification force business directly
(1) Product Type	(2) Death Benefit or Account Value	(3) Reserves Held	(4) Codification Reserves	(5) Codification Standard
				,
iii. The istates subscribing to the	nformation listed shall is alternative.	include all products ide	entified by either the sta	te of filing or any other
standard does not direct	ere is no codification st ctly address the type of ic method and assumpti	product or risk in forc	e, the appointed actuary	
	comparison provided by the actuarial memorand		kept confidential to the	same extent and under
the state of domicile a opinion within sixty	vithstanding the above, to not require an opinion by (60) days of the reque ompany, the Director minion.	pased on the laws of the est or such other period	is state. If a company i od of time determined	s unable to provide the by the Director after

01. General. (7-1-97)

a. In accordance with Section 41-612(12), Idaho Code, the appointed actuary shall prepare a

00924. DESCRIPTION OF ACTUARIAL MEMORANDUM INCLUDING AN ASSET ADEQUACY

ANALYSIS AND REGULATORY ASSET ADEQUACY ISSUES SUMMARY.

- **b.** In preparing the memorandum, the appointed actuary may rely on, and include as a part of his own memorandum, memoranda prepared and signed by other actuaries who are qualified within the meaning of Subsection 00521.02 of this chapter, with respect to the areas covered in such memoranda, and so state in their memoranda.
- **c.** If the Director requests a memorandum and no such memorandum exists or if the Director finds that the analysis described in the memorandum fails to meet the standards of the Actuarial Standards Board or the standards and requirements, the Director may designate a qualified actuary to review the opinion and prepare such supporting memorandum as is required for review. The reasonable and necessary expense of the independent review shall be paid by the company but shall be directed and controlled by the Director. (7-1-97)
- **d.** The reviewing actuary shall have the same status as an examiner for purposes of obtaining data from the company and the work papers and documentation of the reviewing actuary shall be retained by the Director; provided, however, that any information provided by the company to the reviewing actuary and included in the work papers shall be considered as examination workpapers and shall be kept confidential to the same extent as is prescribed by Section 41-227, Idaho Code. The reviewing actuary shall not be an employee of a consulting firm involved with the preparation of any prior memorandum or opinion for the insurer pursuant to this rule for any one of the current year or the preceding three (3) years. (7-1-97)
- e. In accordance with Section 41-612(12), Idaho Code, the appointed actuary shall prepare a regulatory asset adequacy issues summary, the contents of which are specified in Subsection 024.03 of this chapter. The regulatory asset adequacy issues summary will be submitted no later than March 15 of the year following the year for which a statement of actuarial opinion based on asset adequacy is required. The regulatory asset adequacy issues summary will be maintained as confidential and not subject to public disclosure by the director in accordance with Section 41-612(12), Idaho Code, and Section 9-340D(5) of the Idaho Public Records Act.
- - **a.** For reserves:; (7-1-97)(
- i. Product descriptions including market description, underwriting and other aspects of a risk profile and the specific risks the appointed actuary deems significant; (7-1-97)
 - ii. Source of liability in force; (7-1-97)
 - iii. Reserve method and basis; (7-1-97)
 - iv. Investment reserves: (7-1-97)
 - v. Reinsurance arrangements.: and (7-1-97)(
- vi. Identification of any explicit or implied guarantees made by the general account in support of benefits provided through a separate account or under a separate account policy or contract and the methods used by the appointed actuary to provide for the guarantees in the asset adequacy analysis.
 - **b.** Documentation of assumptions to test reserves for the following:
 - i. Lapse rates (both base and excess);

		IT OF INSURANCE pinion & Memorandum Rule	Docket No. 18-0177-0601 Proposed Rulemaking
	<u>ii.</u>	Interest crediting rate strategy:	()
	<u>iii.</u>	Mortality:	()
	<u>iv.</u>	Policyholder dividend strategy;	<u>()</u>
	<u>v.</u>	Competitor or market interest rate:	<u>()</u>
	<u>vi.</u>	Annuitization rates:	<u>()</u>
	<u>vii.</u>	Commissions and expenses; and	<u>()</u>
	<u>viii.</u>	Morbidity.	<u>()</u>
memora	<u>ix.</u> andum c	The documentation of the assumptions shall be such that an accould form a conclusion as to the reasonableness of the assumptions.	tuary reviewing the actuarial
	<u>bc</u> .	For assets:	(7-1-97)
assets;	i.	Portfolio descriptions, including a risk profile disclosing the qual	lity, distribution and types of (7-1-97)
	ii.	Investment and disinvestment assumptions;	(7-1-97)
	iii.	Source of asset data;	(7-1-97)
	iv.	Asset valuation bases.	(7-1-97)
	<u>d.</u>	Documentation of assumptions made for the following assets:	<u>()</u>
	<u>i.</u>	Default costs;	<u>()</u>
	<u>ii.</u>	Bond call function:	<u>()</u>
	<u>iii.</u>	Mortgage prepayment function;	()
	<u>iv.</u>	Determining market value for assets sold due to disinvestment strate	gy; and ()
	<u>v.</u>	Determining yield on assets acquired through the investment strategy	<u>()</u>
memora	<u>vi.</u> andum o	The documentation of the assumptions shall be such that an accould form a conclusion as to the reasonableness of the assumptions.	tuary reviewing the actuarial
	<u>ее</u> .	Analysis basis:	(7-1-97)
	i.	Methodology;	(7-1-97)
analyze	ii. ed;	Rationale for inclusion/exclusion of different blocks of business	and how pertinent risks were (7-1-97)
	iii.	Rationale for degree of rigor in analyzing different blocks of business	s; (7-1-97)
	iv.	Criteria for determining asset adequacy;	(7-1-97)
	v.	Effect of federal income taxes, reinsurance and other relevant factors	s. (7-1-97)
	<u>f.</u>	Summary of material changes in methods, procedures, or assump	ptions from prior year's asset

		IT OF INSURANCE pinion & Memorandum Rule	Docket No. 18-0177-0601 Proposed Rulemaking
<u>adequa</u>	acy analy	<u>vsis;</u>	<u>()</u>
	<u>4g</u> .	Summary of Results;	(7-1-97)
	<u>е</u> <u>h</u> .	Conclusion(s).	(7-1-97)
	<u>03.</u>	Details of the Regulatory Asset Adequacy Issues Summary	<u>()</u>
	<u>a.</u>	The regulatory asset adequacy issues summary shall include:	<u>()</u>
certain valuati determ of the amoun	tests in ion date nined by projection	Descriptions of the scenarios tested (including whether and the sensitivity testing done relative to those scenarios. If no the aggregate, the actuary should describe those tests and the anywhich, if held, would eliminate the negative aggregate surplus variether extending the projection period until the in force and associant period are immaterial or by adjusting the surplus amount at the propriately estimates the value that can reasonably be expected to orce;	egative ending surplus results under nount of additional reserve as of the dues. Ending surplus values shall be stated assets and liabilities at the end e end of the projection period by an
<u>materi</u>	<u>ii.</u> ally diffe	The extent to which the appointed actuary uses assumptions in the rent than the assumptions used in the previous asset adequacy and	
<u>adequa</u>	<u>iii.</u> acy analy	The amount of reserves and the identity of the product line resis in the prior opinion but were not subject to analysis for the cu	
	<u>iv.</u>	Comments on any interim results that may be of significant co	ncern to the appointed actuary:
<u>flows,</u>	<u>v.</u> includin	The methods used by the actuary to recognize the impact of g both assets and liabilities, under each of the scenarios tested; an	
		Whether the actuary has been satisfied that all options whether ling but not limited to those affecting cash flows embedded in fixe investments have been appropriately considered in the asset adeq	ed income securities) and equity-like
		The regulatory asset adequacy issues summary shall contain asset adequacy issues summary is being supplied and shall being the actuarial opinion.	
	0 3 4.	Conformity to Standards of Practice. The memorandum sha	ll include a statement:
approp	arial met oriate Sta s memora	thods, considerations and analyses used in the preparation of indards of Practice as promulgated by the Actuarial Standards Boandum."	this memorandum conform to the pard, which standards form the basis (7-1-97)
010.	ADDI	TIONAL CONSIDERATIONS FOR ANALYSIS.	
accora	01. lance wit	Aggregation. For the asset adequacy analysis for the statem th Section 008, reserves and assets may be aggregated by either o	
appoir aggreg	ited actu sated are	Aggregate the reserves and related actuarial items, and the supiness, before analyzing the adequacy of the combined assets to a ary must be satisfied that the assets held in support of the reservant and a manner that the cash flows from the aggrilities from the blocks of business that have been aggregated.	mature the combined liabilities. The erves and related actuarial items so
	<i>b</i> .	Aggregate the results of asset adequacy analysis of one (1) or	r more products or lines of business,

the reserves for which prove through analysis to be redundant, with the results of one (1) or more products or lines of business, the reserves for which prove through analysis to be deficient. The appointed actuary must be satisfied that the asset adequacy results for the various products or lines of business for which the results are so aggregated.

(7-1-97)

i. Are developed using consistent economic scenarios; or

(7-1-97)

- ii. Are subject to mutually independent risks, i.e., the likelihood of events impacting the adequacy of the assets supporting the redundant reserves is completely unrelated to the likelihood of events impacting the adequacy of the assets supporting the deficient reserves. In the event of any aggregation, the actuary must disclose in his opinion that such reserves were aggregated on the basis of method Subsections 010.01.a., 010.01.b.i., or 010.01.b.ii., whichever is applicable, and describe the aggregation in the supporting memorandum. (7-1-97)
- 92. Selection of Assets for Analysis. The appointed actuary shall analyze only those assets held in support of the reserves which are the subject for specific analysis, hereafter called "specified reserves". A particular asset or portion thereof supporting a group of specified reserves cannot support any other group of specified reserves. An asset may be allocated over several groups of specified reserves. The annual statement value of the assets held in support of the reserves shall not exceed the annual statement value of the specified reserves, except as provided in Subsection 010.03. If the method of asset allocation is not consistent from year to year, the extent of its inconsistency should be described in the supporting memorandum.
- O35. Use of Assets Supporting the Interest Maintenance Reserve and the Asset Valuation Reserve. An appropriate allocation of assets in the amount of the Interest Maintenance Reserve (IMR), whether positive or negative, must be used in any asset adequacy analysis. Analysis of risks regarding asset default may include an appropriate allocation of assets supporting the Asset Valuation Reserve (AVR); these AVR assets may not be applied for any other risks with respect to reserve adequacy. Analysis of these and other risks may include assets supporting other mandatory or voluntary reserves available to the extent not used for risk analysis and reserve support. The amount of the assets used for the AVR must be disclosed in the Table of Reserves and Liabilities of the opinion and in the memorandum. The method used for selecting particular assets or allocated portions of assets must be disclosed in the memorandum.

04. Required Interest Scenarios.

(7-1-97)

- **a.** For the purpose of performing the asset adequacy analysis required by this rule, the qualified actuary is expected to follow standards adopted by the Actuarial Standards Board; nevertheless, the appointed actuary must consider in the analysis the effect of at least the following interest rate scenarios:

 (7-1-97)
 - i. Level with no deviation; (7-1-97)
 - ii. Uniformly increasing over ten (10) years at one half percent (1/2%) per year and then level;
 (7-1-97)
- iii. Uniformly increasing at one percent (1%) per year over five (5) years and then uniformly decreasing at one percent (1%) per year to the original level at the end of ten (10) years and then level; (7-1-97)
 - iv. An immediate increase of three percent (3%) and then level; (7-1-97)
 - v. Uniformly decreasing over ten (10) years at one half percent (1/2%) per year and then level;
- vi. Uniformly decreasing at one percent (1%) per year over five (5) years and then uniformly increasing at one percent (1%) per year to the original level at the end of ten (10) years and then level; and (7-1-97)
 - vii. An immediate decrease of three percent (3%) and then level. (7-1-97)
- **b.** For these and other scenarios which may be used, projected interest rates for a five (5) year Treasury Note need not be reduced beyond the point where the five (5) year Treasury Note yield would be at fifty

Docket No. 18-0177-0601 Proposed Rulemaking

(50%) of its initial level.

(7-1-97)

- e. The beginning interest rates may be based on interest rates for new investments as of the valuation date similar to recent investments allocated to support the product being tested or be based on an outside index, such as Treasury yields, of assets of the appropriate length on a date close to the valuation date. Whatever method is used to determine the beginning yield curve and associated interest rates should be specifically defined. The beginning yield curve and associated interest rates should be consistent for all interest rate scenarios.

 (7-1-97)
- **056. Documentation**. The appointed actuary shall retain on file, for at least seven (7) years, sufficient documentation so that it will be possible to determine the procedures followed, the analyses performed, the bases for assumptions and the results obtained. (7-1-97)

01125. -- 999. (RESERVED).

IDAPA 20 - DEPARTMENT OF LANDS

20.03.14 - RULES GOVERNING GRAZING LEASES AND CROPLAND LEASES

DOCKET NO. 20-0314-0601 (FEE RULE)

NOTICE OF RULEMAKING - TEMPORARY AND PROPOSED RULE

EFFECTIVE DATE: The effective date of the temporary rule is June 15, 2006.

AUTHORITY: In compliance with Sections 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has adopted a temporary rule, and proposed regular rulemaking procedures have been initiated. The action is authorized pursuant to Section(s) 58-104(6) and 58-105, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be held as follows:

10:00 to 11:00 a.m. Wednesday August 9, 2006 Idaho Department of Lands office 954 West Jefferson Street, Boise, Idaho 10:00 to 11:00 a.m. Thursday August 10, 2006 Idaho Department of Lands office 3563 Ririe Highway, Idaho Falls, Idaho

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is the required finding and concise statement of its supporting reasons for adopting a temporary rule and a nontechnical explanation of the substance and purpose of the proposed rulemaking:

Currently, the Department of Lands makes valuations of lessee-owned rangeland improvements on State grazing leases. However, there is no process for filing objections and resolving conflicts over the valuations made by the Department before a lease parcel goes to auction. Both the temporary and proposed rules will establish a process and timetable that provides structure and certainty in how objections are resolved.

The new rules will require that parties objecting to the Department's valuation must submit a complete and timely notice of objection form and a fee which will be used to pay for the services of an independent third party (certified appraiser). The independent third party will review the Department's valuation and the alternate valuations provided by the applicants, and determine which is most accurate. The determination by the independent third party will be deemed final.

TEMPORARY RULE JUSTIFICATION: Pursuant to Section(s) 67-5226(1), Idaho Code, the Governor has found that temporary adoption of the rule is appropriate for the following reasons:

It confers a benefit by protecting the Endowment Trust from the costs, delayed lease payments, and reduced revenues associated with resolving objections to Department valuations of lessee owned rangeland improvements on State grazing leases. Those costs are a threat to the Constitutional mandate to maximize financial returns to the Endowments.

FEE SUMMARY: Pursuant to Section 67-5226(2), the Governor has found that the fee or charge being imposed or increased is justified and necessary to avoid immediate danger and the fee is described herein:

Objectors must submit a fee of \$2,500 or 10% of the State's total valuation, whichever is greater, to pay for the services of an independent third party to evaluate conflicting value estimates.

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year: N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because these rules were developed through informal negotiations with user groups before rule changes were contemplated.

DEPARTMENT OF LANDS Grazing Leased & Cropland Leases

Docket No. 20-0314-0601 (Fee Rule) Temporary & Proposed Rulemaking

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the temporary and proposed rule, contact: Tracy Behrens, Program Manager, Grazing & Cropland, (208) 334-0200 or George Bacon, Assistant Director, Lands Minerals & Range, (208) 334-0200.

Anyone may submit written comments regarding this proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 27th day of June, 2006.

George B. Bacon Assistant Director, Lands, Minerals & Range Idaho Department of Lands 954 West Jefferson Street PO Box 83720 Boise, Idaho, 83720-0050

Phone: (208) 334-0200 Fax: (208) 334-3698

THE FOLLOWING IS THE TEXT OF DOCKET NO. 20-0314-0601

102. APPRAISAL OF IMPROVEMENTS VALUATION OF IMPROVEMENTS.

Credited improvements will be valued on the basis of replacement cost, including lessee provided labor, equipment and materials, less depreciation based on loss of utility. Improvements cannot be appraised higher than current market value, regardless of lessee's cost. Any improvement amortization or cost limitations identified by the Department will be considered in determining a final value.

(3-13-02)(6-15-06)T

- **O1.** Applicant Review of Department Improvement Credit Valuation. All applicants for a conflicted lease will be provided a copy of the Department's improvement credit valuation for review and a notice of objection form. Any applicant objecting to the appraisal will have fourteen (14) days from the date of the valuation mailing to submit the notice of objection form to the Department. If no objections are received during the fourteen (14) day review period, the lease auction will be scheduled and will proceed using the Departments improvement credit valuation.

 (6-15-06)T
- **O2. Failure to File a Timely Notice of Objection.** Failure to submit a notice of objection within the specified 14-day period will preclude any applicant from further administrative remedies and the auction will proceed using the Department's improvement credit valuation. (6-15-06)T
- <u>Motice of Objection.</u> Any applicant objecting to the Department improvement credit valuation must submit a complete and timely notice of objection form, and payment of two thousand five hundred dollars (2,500) or ten percent (10%) of the total Department improvement credit valuation whichever is greater, to pay for the services of an independent third party. Within five (5) days of receipt of the notice of objection, the Department will notify all applicants in writing that an objection has been received and provide them with a list of certified appraisers.

 (6-15-06)T
- **04.** Selection of an Independent Third Party. The applicants will have fourteen (14) days from the date of the Department's notification of an objection to select by mutual agreement, one individual from the list of certified appraisers to serve as an independent third party. If the applicants cannot agree on an independent third party

DEPARTMENT OF LANDS Grazing Leased & Cropland Leases

Docket No. 20-0314-0601 (Fee Rule) Temporary & Proposed Rulemaking

within the fourteen (14) day time period, the Department will randomly select one individual from the list to serve as the independent third party. (6-15-06)T

- O5. Duties of the Independent Third Party. The independent third party will review the Department improvement credit valuation and alternate valuations provided by the applicants. Following this review, the independent third party will select from among the Department valuation and alternate valuations, the one value that (s)he determines is the most accurate value of the improvements. The independent third party will notify the Department of this value in writing.

 (6-15-06)T
- 06. Notification of Final Improvement Value. Within three (3) days of receiving the independent third party's final determination of improvement credit value, the Department will mail to each applicant an auction notice which shall reference the independent third party's determined value of improvements. The determination by the independent third party of the improvement value will be deemed final, and the appraised value of improvements will not be allowed as a basis for appeal of the auction.

 (6-15-06)T

IDAPA 21 - DIVISION OF VETERANS SERVICES

21.01.06 - RULES FOR THE ENFORCEMENT OF THE VETERAN'S PREFERENCE IN PUBLIC EMPLOYMENT

DOCKET NO. 21-0106-0601

NOTICE OF RULEMAKING - ADOPTION OF PENDING RULE

EFFECTIVE DATE: This rule has been adopted by the agency and is now pending review by the 2007 Idaho State Legislature for final approval. The pending rule becomes final and effective at the conclusion of the legislative session, unless the rule is approved, rejected, amended or modified by concurrent resolution in accordance with Section 67-5224 and 67-5291, Idaho Code. If the pending rule is approved, amended or modified by concurrent resolution, the rule becomes final and effective upon adoption of the concurrent resolution or upon the date specified in the concurrent resolution.

AUTHORITY: In compliance with Section 67-5224, Idaho Code, notice is hereby given that this agency has adopted a pending rule. The action is authorized pursuant to Section 65-506, Idaho Code.

DESCRIPTIVE SUMMARY: The following is a concise explanatory statement of the reasons for adopting the pending rule and a statement of any change between the text of the proposed rule and the text of the pending rule with an explanation of the reasons for the change.

The pending rule is being adopted as proposed. The complete text of the proposed rule was published in the June 7, 2006 Idaho Administrative Bulletin, Vol. 06-6, pages 109 through 115.

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year: N/A

ASSISTANCE ON TECHNICAL QUESTIONS: For assistance on technical questions concerning this pending rule, contact Joe Bleymaier, Administrator, (208) 334-3513.

DATED this 29th day of June 2006.

Joe Bleymaier, Administrator Division of Veterans Services 320 Collins Rd. Boise ID 83702 Phone: (208) 334-3513

Fax: (208) 334-2627

DOCKET NO. 21-0106-0601 - ADOPTION OF PENDING RULE

There are no substantive changes from the proposed rule text.

The complete text of the proposed rule was published in the Idaho Administrative Bulletin, Volume 06-6, June 7, 2006, pages 109 through 115.

This rule has been adopted as a pending rule by the Agency and is now pending review and approval by the 2007 Idaho State Legislature as a final rule.

IDAPA 25 - OUTFITTERS AND GUIDES LICENSING BOARD

25.01.01 - RULES OF THE OUTFITTERS AND GUIDES LICENSING BOARD

DOCKET NO. 25-0101-0501

NOTICE OF RULEMAKING - TEMPORARY AND PROPOSED RULE

EFFECTIVE DATE: The effective date of the temporary rule is July 1, 2006.

AUTHORITY: In compliance with Sections 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has adopted a temporary rule, and proposed rulemaking procedures have been initiated. The action is authorized pursuant to Sections 36-2107(b) and (d), Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, not later than August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is the required finding and concise statement of the supporting reasons for adopting a temporary rule and a nontechnical explanation of the substance and purpose of the proposed rulemaking:

The changes proposed in Section 058.03 clarify operational boundaries where and how existing outfitters can operate on the St. Joe River.

TEMPORARY RULE JUSTIFICATION: Pursuant to Section(s) 67-5226(1) (b), Idaho Code, the Governor has found that temporary adoption of the rule is appropriate for the following reasons:

This rule change was brought abut as the result of clarification of federal United States Forest Services (USFS) authorization of outfitter operations on the St. Joe River completed earlier this year. This temporary rule will allow existing outfitters to continue to provide guided services to the public for this operational season and in the future. These changes are clarification of existing federal permitted use and are not substantive.

FEE SUMMARY: Pursuant to Section 67-5226(2), the Governor has found that the fee or charge being imposed or increased is justified and necessary to avoid immediate danger and the fee is described herein: N/A

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year resulting from this rulemaking: N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because the five outfitters that are affected by the rule change were notified via certified mail of this clarification in December, 2005 and four of these outfitters found the changes favorable. The fifth outfitter's concerns were reviewed by the Board and determined to be unfounded. Additionally, these changes are driven by clarifications negotiated with the USFS resulting in adjustment in state rule clarifying where outfitters can provide float boating and walk and wade fishing activities on the St. Joe River much of which is federally managed. The changes will put USFS policy and State rules in sync. These changes are not substantive.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the proposed rule, contact: Jake Howard, Executive Director (208) 327-7380 - FAX (208) 327-7382.

Anyone may submit written comments regarding the proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 14th day of June, 2006.

Jake Howard, Executive Director Outfitters and Guides Licensing Board 1365 North Orchard, Suite 172, Boise, ID 83706 (208) 327-7380 / FAX (208) 327-7382

THE FOLLOWING IS THE TEXT OF DOCKET NO. 25-0101-0601

059. RIVER, LAKE AND RESERVOIR POWER AND FLOAT OUTFITTER LIMITS.

There are no changes to Subsections 059.01, 059.02, 059.04, or 059.05.

03. Licensable Waters -- River Sections (SH1) Henry's Fork Snake River Through (TE3) Teton River -- Table. The following rivers and streams or sections that lie totally or partially within the state of Idaho shall be open to commercial boating operations by outfitters and guides. All other rivers and streams or sections that lie totally or partially within the state of Idaho shall be closed to commercial boating by outfitters and guides.

none	7
none	8
none	4

River/Section	Maximum No. Power	Maximum No. Float
(SS1) Snake River - South Fork - Palisades Dam to confluence with Henry's Fork. No more than four (4) boats per section/per day may be used by an outfitter at any one time on any of the following river reaches: (a) Palisades Dam to Swan Valley Bridge; (b) Swan Valley Bridge to Black Canyon (Exception: Not more than eight (8) boats will be permitted in Section (b) on the same day, provided that no more than four (4) of said boats are in this Section after 11:00 a.m.); (c) Black Canyon to Poplar (Kelly Canyon); and (d) Poplar to the confluence with Henry's Fork. Restrictions: No outfitter may have more than twelve (12) boats on the SS1 in any one (1) day. Further, the lower boundary of Section (a) (Palisades Dam to Swan Valley Bridge) shall overlay Section (b) to the Conant takeout (Swan Valley Bridge to Black Canyon), and Section (b) shall overlay Section (c) to the Cottonwood access. Supply boats which do not carry clients are exempt from these restrictions.	5	6
(SN1) Snake River - Henry's Fork confluence downstream to Gem State Power Plant	3	3
(SN2) Smake Biver. Com State Dower Blant downstream to head at the		
(SN2) Snake River - Gem State Power Plant downstream to headwaters of American Falls Reservoir	3	3
(SN3) Snake River - American Falls Dam to Massacre Rocks State Park	3	3
(SN4) Snake River - Massacre Rocks State Park to Milner Dam	3	3
* (SN5) Snake River - Milner Dam to Star Falls	none	3
* (SN6) Snake River - Star Falls to Twin Falls	none	5
(SN7) Snake River - Twin Falls to Lower Salmon Falls Dam	3	3
(SN8) Snake River - Lower Salmon Falls Dam to Bliss Dam	3	5
(SN9) Snake River - Bliss Dam to headwaters of C.J. Strike Reservoir	5	5
(SN10) Snake River - C.J. Strike Dam to Walter's Ferry	5 outfitters for either power or float or combination thereof	
(SN11) Snake River - Walter's Ferry to headwaters of Brownlee Reservoir	5	none

River/Section	Maximum No. Power	Maximum No. Float
* (SN12) Snake River - Hells Canyon Dam to Pittsburg Landing	18	15
* (SN13) Snake River - Hells Canyon Dam to Pittsburg Landing, two (2) one-day float trips only	none	2
(SN14) Snake River - Pittsburg Landing to Heller Bar or Lewiston	19	15
(SN15) Snake River - Washington/Oregon stateline to Lewiston	Limitations pending. (This section is set aside for future rules of fishing only outfitters)	
(SJ1) St. Joe River - Spruce Tree Campground to St Joe City Bridge. St. Joe City Bridge to Lake Coeur d'Alene St. Joe River Headwaters to Red Ives. No outfitted boating. One (1) walk and wade only fishing outfitter.	none 2	2 <u>none</u>
(SJ2) St. Joe River - Red Ives to Avery. In addition to one (1) float boat license, three (3) walk and wade only outfitters. No fishing from float boats, boat clients may fish via walk and wade.	none	1
(SJ3) St. Joe River - Avery to St. Joe City Bridge	none	<u>2</u>
(SJ4) St. Joe River - St. Joe City Bridge to Lake Coeur d'Alene	2	none
(SM1) St. Maries River	5	5
(TE1) Teton River - Upper put-in to Cache Bridge, motors not to exceed 10 hp	5 outfitters for either power or float or combination thereof	
(TE2) Teton River - Cache Bridge to Harrop Bridge, motors not to exceed 10 hp	6 outfitters for either power or float or combination thereof	
(TE3) Teton River - Harrop Bridge to confluence with Snake River, motors not to exceed 10 hp	none	5

^{*} Classified rivers

^{##} Floatboat and powerboat outfitters on these sections shall be considered within their area of operations when hiking from the river or fishing in tributaries away from the river, but shall not include overnight activities. Conflicts with land-based outfitters shall be handled on a case-by-case basis.

(4-11-06)(7-1-06)T

IDAPA 27 - IDAHO STATE BOARD OF PHARMACY

27.01.01 - RULES OF THE IDAHO STATE BOARD OF PHARMACY

DOCKET NO. 27-0101-0601

NOTICE OF RULEMAKING - TEMPORARY AND PROPOSED RULE

EFFECTIVE DATE: The effective date of the temporary rule is June 16, 2006.

AUTHORITY: In compliance with Sections 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has adopted a temporary rule, and proposed rulemaking procedures have been initiated. The action is authorized pursuant to Section 54-1717, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, not later than August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is the required finding and concise statement of its supporting reasons for adopting a temporary rule and a nontechnical explanation of the substance and purpose of the proposed rulemaking:

The proposed rulemaking provides a mechanism for the initiation of a Remote Dispensing Pilot Program that will allow for the dispensing of prescriptions through remote dispensing machines.

TEMPORARY RULE JUSTIFICATION: Pursuant to Section 67-5226(2)(a) and (c), Idaho Code, the Governor has found that temporary adoption of the rule is appropriate for the following reasons:

The proposed rulemaking is necessary to protect the public health, safety, and welfare, and to confer a benefit by providing pharmaceutical care through the use of telecommunications and remote dispensing machines to patients at a distance from the pharmacy and pharmacist providing the pharmaceutical care.

FEE SUMMARY: Pursuant to Section 67-5226(2), the Governor has found that the fee or charge being imposed or increased is justified and necessary to avoid immediate danger and the fee is described herein: N/A

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year: N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because of the experimental nature of the Remote Dispensing Pilot Program.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the temporary and proposed rule, contact R. K. "Mick" Markuson, Director, (208) 334-2356.

Anyone may submit written comments regarding the proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 16th day of June 2006.

R. K. "Mick" Markuson, Director Idaho State Board of Pharmacy 3380 Americana Terrace, Ste. 320 P. O. Box 83720 Boise ID 83720-0067

Phone: (208) 334-2356; Fax: (208) 334-3536

THE FOLLOWING IS THE TEXT OF DOCKET NO. 27-0101-0601

010. **DEFINITIONS.**

<u>01.</u> <u>Board.</u> Idaho Board of Pharmacy.

(6-16-06)T

- **042. Pharmacist Extern**. Any person enrolled in an approved college of pharmacy who has not received his first professional degree in pharmacy, and who is obtaining experience under the supervision of a pharmacist preceptor. (6-30-95)
- **023. Pharmacist Intern.** Any person who has successfully completed a course of study at an accredited college or school of pharmacy and received the first professional degree in pharmacy, and who is obtaining practical experience under the supervision of a pharmacist preceptor. (6-30-95)
- **034. Preceptor.** A licensed pharmacist in good standing engaged in the practice of pharmacy at a registered training site and directly responsible in supervising the training of a pharmacist extern or intern. The preceptor shall be responsible for: (6-30-95)
- **a.** Personally providing the extern or intern with training experience which in his judgment will increase the extern or intern's proficiency; and (6-30-95)
- **b.** Reporting to the Board upon request, the progress of any pharmacy extern or intern under his supervision; and (6-30-95)
- c. Certifying the extern or intern's experience affidavits when the extern or intern leaves his supervision. (6-30-95)
- **045. Ratios**. A ratio of one (1) pharmacist preceptor to one (1) extern or intern will be required for dispensing functions. (6-30-95)

(BREAK IN CONTINUITY OF SECTIONS)

265. REMOTE DISPENSING PILOT PROJECT.

The Board, through its Executive Director, may authorize specific pharmacies and the pharmacists practicing therein to participate in a Remote Dispensing Pilot Program. The following rules shall apply to pharmacies so authorized by the Board for conducting pharmacy through a Remote Dispensing Program. The purpose of the Remote Dispensing Pilot Program is to allow the provision of pharmaceutical care through the use of telecommunications and Remote Dispensing Machines (RDM) to patients at a distance from the pharmacy and pharmacist providing the pharmaceutical care. During the pilot project phase of the Remote Dispensing Pilot Program, designation to participate in the Remote Dispensing Pilot Program shall be at the discretion of the Board and the Executive Director.

(6-16-06)T

26<u>56</u>. <u>—290.</u> (RESERVED).

267. REMOTE PHARMACY REGISTRATION - OPERATING MEMORANDUM.

Q1. Registration. During the pilot project phase of the Remote Dispensing Pilot Project, each Remote Pharmacy shall be registered with the Board as a Pilot Remote Pharmacy. Pilot Remote Pharmacies will only be approved for operating in medical care facilities operating in areas otherwise unable to obtain pharmaceutical care on a timely basis. RDMs must be used only in settings with an established program of pharmaceutical care that ensures prescription orders are reviewed by a pharmacist before release to the patient. The Responsible Pharmacy must establish the policies and procedures necessary to fulfill the requirements of all applicable state and federal laws,

<u>rules, and regulations.</u> (6-16-06)T

- **Operating Memorandum.** Prior to issuance of a registration for a Pilot Remote Pharmacy, the Responsible Pharmacy, acting through its Pharmacist in Charge, and the Board, acting through its Executive Director, shall enter into an operating memorandum which shall contain:

 (6-16-06)T
- <u>a.</u> The operating protocols applicable to the Pilot Remote Pharmacy and which shall include written policies and procedures that:

 (6-16-06)T
 - i. Ensure safety, accuracy, security, and patient confidentiality; (6-16-06)T
- ii. Define access to the RDM and to medications contained within or associated with the RDM, including but not limited to policies that assign, discontinue, or change access to the RDM and medications; and (6-16-06)T
 - iii. Ensure that access to the medications complies with state and federal laws and regulations. (6-16-06)T
 - **b.** A complete description of the RDM including the operating specifications therefore. (6-16-06)T
- c. An accurate scale drawing of the facility where the Automated Pharmacy System, including its RDM, will be located showing the layout of the location of the RDM, the facilities for the operating pharmacy technician operating the system, the location of a patient counseling area, all access points to the system and the RDM.

 (6-16-06)T
- **d.** A description of the training required for personnel who will access the Automated Pharmacy System (including the RDM) to ensure the competence and ability of all personnel who operate any component of the Automated Pharmacy System and a requirement that adequate documentation of training and continuing education be kept both in the Responsible Pharmacy and at the Pilot Remote Pharmacy, readily available for inspection by the Board.

 (6-16-06)T
- e. A description of the procedures for ensuring that the RDM is in good working order and accurately dispenses the correct strength, dosage form, and quantity of the drug prescribed while maintaining appropriate record-keeping and security safeguards. (6-16-06)T
- <u>f.</u> An ongoing quality assurance program that monitors performance of the Automated Pharmacy System, including the RDM, and the personnel who access it. (6-16-06)T
- g. Such other terms and conditions of operations as the Executive Director deems are reasonably necessary to ensure the health, safety, and welfare of the public with respect to the operations of the Pilot Remote Pharmacy.

 (6-16-06)T
- 03. Pilot Remote Pharmacy Operations. The Operating Memorandum shall govern (in conjunction with all applicable laws, rules, and regulations) the operations of the Pilot Remote Pharmacy with respect to all aspects of the practice of pharmacy at the Pilot Remote Pharmacy. The Operating Memorandum may identify specific rules of the Board which are not applicable to the operation of the Pilot Remote Pharmacy or for which particular applications are modified due to the specific nature of the operations at the Pilot Remote Pharmacy, provided however, the Operating Agreement may not waive or modify application of Federal laws or regulations, or state statutes governing the practice of pharmacy.

 (6-16-06)T
- Oten Dispute Resolution. In the event of a dispute between the Pharmacist in Charge and the Executive Director with respect to specific terms or conditions of the Operating Memorandum, either may petition the Board for a determination, which determination by the Board shall be final. The Operating Memorandum may be amended by agreement between the Responsible Pharmacist and the Executive Director. Any such amendment shall be in writing and shall be appended to the original Operating Memorandum. In addition, the Operating Agreement may be amended by order of the Board upon the petition of either the Responsible Pharmacist or the Executive Director to the Board, or upon the Board's own motion. Any such Board order shall be appended to the original Operating

BOARD OF PHARMACY Rules of the Idaho State Board of Pharmacy

Docket No. 27-0101-0601 Temporary and Proposed Rule

<u>Memorandum.</u> (6-16-06)T

268. PHARMACIST IN CHARGE.

- **Q1.** Responsibilities. The Pharmacist in Charge shall be responsible for all aspects of the operation of the Pilot Remote Pharmacy including safety, accuracy, security, and patient confidentiality. (6-16-06)T
- **Q2. Product Supply.** The Pharmacist in Charge shall ensure that the RDM is stocked accurately and in accordance with the established, written policies and procedures. A pharmacist must check the accuracy of the product supplied for stocking the machine.

 (6-16-06)T

269. DRUG DELIVERY AND CONTROL.

Identity of RDM accessed:

<u>a.</u>

- <u>O1.</u> <u>Licensed Pharmacist Present</u>. At all times the Automated Pharmacy System is being operated, there shall be a pharmacist licensed in the state of Idaho, or a technician registered in the state of Idaho, present at the Pilot Remote Pharmacy and attending to such operations. (6-16-06)T
- <u>O2.</u> <u>Communication</u>. At all times the Automated Pharmacy System is being operated, there shall be a pharmacist licensed in the state of Idaho available at the Responsible Pharmacy for immediate communication through a two-way audio and video hookup between the Responsible Pharmacy and the Pilot Remote Pharmacy.

 (6-16-06)T
- **O3.** Electronic Recording. All events involving the contents of the RDM must be recorded electronically. Records must be maintained by the Responsible Pharmacy for a minimum of three (3) years and must be readily available to the Board. Such records are in addition to any records required under other statutes, regulations, or rules, and shall be available for inspection by the Board in the same fashion as other required pharmacy records, and shall include:

 (6-16-06)T

<u>b.</u>	Identification of the individual accessing the RDM:	<u>(6-16-06)T</u>
<u>c.</u>	Type of transaction;	<u>(6-16-06)T</u>
<u>d.</u>	Date and time of transaction;	<u>(6-16-06)T</u>
<u>e.</u>	Name, strength, dosage form, and quantity of the drug accessed;	<u>(6-16-06)T</u>
<u>f.</u>	Name of the patient for whom the drug was ordered;	<u>(6-16-06)T</u>
<u>g.</u>	Name of the prescribing practitioner; and	<u>(6-16-06)T</u>
<u>h.</u>	Such additional information as the Pharmacist in Charge may deem necessary.	<u>(6-16-06)T</u>
<u>04.</u>	Access to RDM. Only an Idaho licensed pharmacist may have access to the RDM.	<u>(6-16-06)T</u>
<u>05.</u>	Stocking Medications. Only an Idaho licensed pharmacist may stock medications in t	he RDM. (6-16-06)T

- <u>06.</u> <u>Packaging and Labeling.</u> All containers of medications stored in the RDM shall be packaged and labeled in accordance with state and federal laws, rules, and regulations. (6-16-06)T
- <u>O7.</u> <u>Handling Controlled Substances</u>. All aspects of handling controlled substances shall meet the requirements of all state and federal laws, rules, and regulations. (6-16-06)T
- Os. Counseling. Oral counseling shall be provided by a pharmacist licensed in Idaho at the time of dispensing by a two-way audio and video hookup between the Responsible Pharmacy and the Pilot Remote

(6-16-06)T

BOARD OF PHARMACY Rules of the Idaho State Board of Pharmacy

Docket No. 27-0101-0601 Temporary and Proposed Rule

<u>Pharmacy.</u> (6-16-06)T

- <u>Masted, Discarded, or Unused Medications.</u> The Automated Pharmacy Systems shall provide a mechanism for securing and accounting for wasted, discarded, or unused medications in accordance with existing state and federal laws, rules, and regulations. (6-16-06)T
- 10. RDM Identification. The RDM must be clearly marked with the name, address, and phone number of the Responsible Pharmacy and Pharmacist in Charge. (6-16-06)T

270. -- 290. (RESERVED).

IDAPA 27 - BOARD OF PHARMACY

27.01.01 - RULES OF THE IDAHO STATE BOARD OF PHARMACY

DOCKET NO. 27-0101-0602

NOTICE OF RULEMAKING - TEMPORARY AND PROPOSED RULE

EFFECTIVE DATE: The effective date of the temporary rule is July 31, 2006.

AUTHORITY: In compliance with Sections 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has adopted a temporary rule, and proposed rulemaking procedures have been initiated. The action is authorized pursuant to Sections 54-1717and 37-2715, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, not later than August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is the required finding and concise statement of its supporting reasons for adopting a temporary rule and a nontechnical explanation of the substance and purpose of the proposed rulemaking:

Pharmacies in Idaho have requested specificity regarding the positive identification records to be kept by pharmacies when filling prescriptions for controlled substances. Clarification was also requested by the legislative committee which reviewed the rule during the 2006 legislative session. There is an immediate need for the rule change to assist pharmacies to protect the public health and welfare of Idaho citizens by maintaining appropriate records for law enforcement and the Board of Pharmacy with respect to regulation of controlled substance prescription drugs. The proposed rule changes specifically delineate the positive identification information that pharmacies must keep when dispensing controlled substance prescription drugs directly to individuals at the pharmacy. The proposed rule changes also specifically set out the standards to be met by the pharmacies with respect to retrieval of the positive identification information.

TEMPORARY RULE JUSTIFICATION: Pursuant to Section 67-5226(2)(a) and (b), Idaho Code, the Governor has found that temporary adoption of the rule is appropriate for the following reasons:

This temporary rule is necessary to protect the public health and welfare and to comply with deadlines in amendments to governing law.

FEE SUMMARY: Pursuant to Section 67-5226(2), the Governor has found that the fee or charge being imposed or increased is justified and necessary to avoid immediate danger and the fee is described herein: N/A

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year: N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because of the immediate need for the rule change.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the temporary and proposed rule, contact R. K. "Mick" Markuson, Director, (208) 334-2356.

Anyone may submit written comments regarding the proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 13th day of July 2006.

BOARD OF PHARMACY Idaho State Board of Pharmacy

Docket No. 27-0101-0602 Temporary & Proposed Rulemaking

R. K. "Mick" Markuson, Director Idaho State Board of Pharmacy 3380 Americana Terrace, Ste. 320 P. O. Box 83720, Boise ID 83720-0067 Phone: (208) 334-2356; Fax: (208) 334-3536

THE FOLLOWING IS THE TEXT OF DOCKET NO. 27-0101-0602

464. FILLING OF A PRESCRIPTION FOR A CONTROLLED SUBSTANCE.

- **O1. Filling and Dispensing.** No person other than a registered pharmacist under the laws of this state shall be responsible for the filling and dispensing of a prescription for a controlled substance. (7-31-06)T
- **<u>02.</u>** <u>Identification.</u> Persons receiving controlled substances shall be positively identified by staff at the pharmacy at the time any controlled substance is dispensed directly to an individual at the pharmacy. (7-31-06)T
- <u>a.</u> Positive identification shall consist of either a valid, current state or military drivers license or identification card, or a valid, current passport, each of which must contain a photo of the individual and the individual's signature. For each controlled substance prescription dispensed directly to an individual at the pharmacy, the pharmacy shall maintain a record of;

 (7-31-06)T
 - <u>i.</u> The name of the person receiving the prescribed controlled substance (if other than the patient); (7-31-06)T
 - <u>ii.</u> The type of positive identification presented by such person; (7-31-06)T
 - iii. The state, military branch or other governmental entity issuing the identification; and (7-31-06)T
 - iv. The specific identification number of the drivers license, identification card or passport. (7-31-06)T
- **b.** In lieu of these means of positive identification, an individual whose identity is personally and positively known to a staff member of the pharmacy who is present and who identifies the individual at the time of delivery of the prescribed controlled substance may be so identified by the staff member; in such instances, the pharmacy shall maintain a record of:

 (7-31-06)T
 - i. The name of the person receiving the prescribed controlled substance (if other than the patient); (7-31-06)T
- ii. A notation indicating that the patient or other person receiving the prescribed controlled substance was known to the pharmacy staff; and (7-31-06)T
 - iii. The name of the pharmacy staff person making the identification. (4-11-06)(7-31-06)T
- 03. Retrieval of Identification Records. The identification records required under Subsection 464.02 of this rule may be maintained by the pharmacy in any fashion provided that the pharmacy must be able to produce such records upon any lawful request, and match the prescription filled with the positive identification records for the person receiving the prescribed controlled substances, within no more that two (2) business days from the date of the request.

 (7-31-06)T

IDAPA 35 - IDAHO STATE TAX COMMISSION

35.01.05 - IDAHO MOTOR FUELS TAX ADMINISTRATIVE RULES

DOCKET NO. 35-0105-0601

NOTICE OF RULEMAKING - PROPOSED RULE

AUTHORITY: In compliance with Section 67-5221(1), Idaho Code, notice is hereby given that this agency has initiated proposed rulemaking procedures. The action is authorized pursuant to Section(s) 63-105, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, not later than August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is a nontechnical explanation of the substance and purpose of the proposed rulemaking:

Rule 105: Amend Motor Fuels Rule 105 to clarify that: 1) Only gaseous fuels delivered into the supply tank of a registered motor vehicle should be reported as taxable gallons on the licenses gaseous fuels distributor's report. 2) Motor vehicles are registered in Idaho, not licensed. 3) All untaxed gaseous fuels delivered into the supply tank of motor vehicles must be accounted for by a licensed gaseous fuels distributor.

Rule 270: Amend Motor Fuels Rule 270 to include other types of refunds granted in Rule 290 that would exclude consumers from using the proration method in Subsection 06.a. and the multi storage tank method in 06.b. of this rule. The reason these consumers are excluded is because they are required to account for the tax-paid gallons placed in the supply tank of the motor vehicle. To clarify that motor vehicles are registered in Idaho, not licensed.

Rule 290: Amend Motor Fuels Rule 290 to rename "Statutory miles per gallon" to "Presumed miles per gallon" in subsection 01.d. The miles per gallons for motor vehicles with a weight of 6,000 lbs. or less needs to be lowered to reflect the actual miles per gallon this weight class achieves under normal working conditions.

Rule 292: Amend Motor Fuels Rule 292 to rename statutory MPG to presumed MPG to match the name in Rule 290. To clarify that motor vehicles are registered in Idaho, not licensed.

Rule 400: Amend Motor Fuels Rule 400 to add a class of motor vehicles to this rule that is currently required to obtain an IFTA license.

FEE SUMMARY: The following is a specific description of the fee or charge imposed or increased: N/A

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year resulting from this rulemaking: N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because the proposed changes are of a simple nature.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the proposed rule, contact Randy Nilson, at (208) 334-7530.

Anyone may submit written comments regarding this proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 29th day of June, 2006.

Randy Nilson, Tax Policy Specialist Idaho State Tax Commission 800 Park Blvd., Plaza IV P.O. Box 36, Boise, ID 83722-0410

THE FOLLOWING IS THE TEXT OF DOCKET NO. 35-0105-0601

105. LICENSED GASEOUS FUELS DISTRIBUTOR'S REPORTS (RULE 105).

- O1. Monthly Reports. Every licensed gaseous fuels distributor shall file with the State Tax Commission a monthly tax report and supporting detailed schedules on forms prescribed by the State Tax Commission. Such reports shall contain a declaration by the person filing the report that the statements contained therein are true and are made under penalties of perjury. The report shall include the following information together with such other information as the State Tax Commission may require:

 (7-1-99)
- a. The total taxable gallons of gaseous fuels sold delivered into the supply tank of registered motor vehicles; (4-5-00)(____)
 - **b.** The taxable gallons after deduction of a two percent (2%) allowance. See Rule 140 of these rules; (4-5-00)
 - **c.** The tax computation; (7-1-99)
 - **d.** The bad debt amount, if any. See Rule 140 of these rules; (4-5-00)
- **e.** The gaseous fuels permit fees (Attach to the report the yellow copy of the receipt for each gaseous fuels permit sold during that month); and (4-5-00)
 - **f.** The net tax due; (4-5-00)
- g. A receipt schedule reporting the total number of taxable gallons of gaseous fuels sold must be attached to the distributor's report. (4-5-00)
- **02. Report Due and Payment Required**. The report shall be due on or before the last day of the month following the month to which the report relates together with the payment of any tax, annual gaseous fuels permit fees, penalty or interest due. See Rule 010 of these rules relating to method of payment and requirement for payments of one hundred thousand dollars (\$100,000) or more. (7-1-99)
- **O3. Failure to Collect and Remit Tax and Permit Fees.** Any gaseous fuels distributor required to collect the tax or permit fee imposed by Section 63-2424, Idaho Code, who fails to collect such tax or permit fee, or any gaseous fuels distributor required to remit the tax or permit fee pursuant to this section who fails to make such remittance shall be liable to the State Tax Commission for the amount of tax or permit fee not collected or remitted plus any applicable penalty or interest. The State Tax Commission may collect such amounts in the manner provided in Section 63-2434, Idaho Code. (7-1-99)
- **04.** Receipt of Gaseous Fuels. The special fuels tax is not imposed on gaseous fuels when the fuels are received in Idaho. (4-5-00)
- **O6.** Annual Fees for Gaseous Fuels Permits. Persons operating vehicles powered by gaseous fuels may pay an annual fee for a gaseous fuels permit instead of paying the special fuel taxes at the time propane or natural gas is purchased. Gaseous fuels distributors who sell these permits shall issue a permit that will be in the form of a decal to be displayed in a conspicuous spot visible from the outside of the permitted vehicle. The fees for gaseous fuels permits are based on the gross vehicle weight of the vehicles and are set by Rule 115 of these rules as is mandated by Section 63-2424(2), Idaho Code. The gaseous fuels permit is valid for the annual permit period of July 1 through June 30 of the following year. The annual permit period displayed on the decal will be the year in which the decal expires. (4-5-00)

- 07. Documentation of Untaxed Sales of Gaseous Fuels Delivered into Motor Vehicles. Gaseous fuels delivered into the fuel supply tank of a licensed registered, or required to be licensed registered, motor vehicle are taxable except for: (7-1-99)
- Government. Gaseous fuels used by vehicles owned or leased, and operated by the federal government, or by an instrumentality of the state of Idaho, including all of its political subdivisions, are exempt from the special fuels tax on gaseous fuels. In this case, the licensed distributor must record on the document of sale, the name of the governmental entity, the license or identification number, and the type of vehicle.
- Gaseous Fuels Decal. Gaseous fuels dispensed into the fuel supply tank of a motor vehicle displaying a valid Gaseous Fuels Decal are exempt from tax. For the exempt status to be valid, the purchaser's name, address, vehicle license number, and the words "gaseous fuels decal" must be recorded on the sales document.

(4-5-00)

08. Completion of Gaseous Fuels Receipt Book(s). The following information is required to be recorde

ed by a g	aseous fuels distributor in his gaseous fuels receipt book for each gaseous fuels permit (de	cal) sold: (4-5-00)
a.	The date;	(4-5-00)
b.	The amount;	(4-5-00)
c.	One (1) of the following weight classes:	(4-5-00)
i.	Zero - eight thousand pounds (0 - 8,000 lbs.); or	(4-5-00)
ii.	Eight thousand one - sixteen thousand pounds (8,001 - 16,000 lbs.); or	(4-5-00)
iii.	Sixteen thousand one - twenty-six thousand pounds (16,001 - 26,000 lbs.); or	(4-5-00)
iv.	Twenty-six thousand one pounds (26,001 lbs.) and over.	(4-5-00)
d.	The current month;	(4-5-00)
e.	The annual permit period;	(4-5-00)
f.	The customer's name and vehicle license plate number;	(4-5-00)
g.	The name and license number of the gaseous fuels distributor who is selling the permit;	and (4-5-00)
h.	The signature of the salesperson.	(4-5-00)

- Annual Reconciliation of Gaseous Fuels Receipt Books and Decals. A distributor who sells gaseous fuels permits must reconcile its account with the State Tax Commission for the annual permit period ending June 30, by July 31, of the same year. Distributors may begin ordering decals and receipt books in May for the upcoming annual permit period. The following is required to be received by the State Tax Commission for reconciliation: (4-5-00)
 - All unused/unsold gaseous fuels decals; (4-5-00)a.
 - All voided receipts (white and yellow copies) not previously submitted with the distributor report; b. (4-5-00)
 - All receipt books (pink copies must be intact); and (4-5-00)c.

STATE TAX COMMISSION Idaho Motor Fuels Tax Administrative Rules		Docket No. 35-0105-0601 Proposed Rulemaking	
d.	A completed gaseous fuels reconciliation form which includes:	(4-5-00)	
i.	The number of decals ordered for the annual permit period;	(4-5-00)	
ii.	The number of decals sold for the annual permit period;	(4-5-00)	
iii.	The balance of decals at the end of the annual permit period; and	(4-5-00)	

iv. The number, if any, of decals lost or destroyed. If decals are lost or destroyed, a statement describing the circumstances of the loss or destruction must accompany the distributor's gaseous fuels permit reconciliation. (4-5-00)

10. Assessment for Unaccounted for Decals. Two hundred and eight dollars (\$208) will be assessed for each decal not accounted for during the annual reconciliation, unless there is clear and convincing evidence the decal was destroyed or mutilated. (4-5-00)

(BREAK IN CONTINUITY OF SECTIONS)

270. REFUND CLAIMS -- DOCUMENTATION (RULE 270).

Refunds to Consumers. Any buyer of motor fuels, claiming a refund under Chapter 24, Title 63, Idaho Code, must retain in his records the original invoices from the seller, showing the number of gallons purchased. All invoices, except those prepared by a computer or similar machine, shall be prepared in ink or a double-faced carbon must be used between the original and first duplicate. Only one (1) original invoice may be issued for each delivery. Each invoice must contain or show the following, in addition to the requirements outlined above: (4-11-06)

a.	A preprinted identification number;	(4-11-06)
b.	Name and address of seller;	(7-1-98)
c.	Name of purchaser;	(7-1-98)
d.	Date of delivery;	(7-1-98)
e.	Type of motor fuel;	(7-1-98)
f.	Gallons invoiced;	(7-1-98)
g.	Price per gallon;	(7-1-98)
h.	At least one (1) of the following to establish that tax has been charged:	(7-1-98)
i.	The amount of Idaho state fuels tax;	(7-1-98)
ii.	The rate of Idaho state fuels tax; or	(7-1-98)
iii.	A statement that the Idaho state fuels tax is included in the price.	(7-1-98)

- **02. Indian-Owned Retail Outlet**. Motor fuels purchased from an Indian-owned retail outlet do not include the Idaho motor fuels tax and do not qualify as an Idaho tax-paid purchase. See definition of Indian-owned retail outlet in Rule 010 of these rules. (4-11-06)
- **03.** Corrected Invoices. No altered or corrected invoice will be accepted for refund purposes. When errors occur, the original invoice must not be altered or corrected, but must be voided and a new original invoice

issued. All altered or corrected invoices must be marked as voided and retained by the seller for at least three (3) years from the date issued. (7-1-98)

- **04. Invoice Retention**. The original invoices required by Subsection 270.01 of this rule shall be retained for the greater of either three (3) years or the time during which the taxpayer's Idaho income tax return is subject to adjustment by either the State Tax Commission or by voluntary action of the taxpayer. (7-1-98)
- **05. Refund Documents.** For refund claims under Section 63-2410(5)(c), Idaho Code, an original invoice includes any duplicate of the original that is created with the same impression as the original, for example, with carbon paper or NCR paper, if the original is retained by the seller and only the duplicate is provided to the customer. An original invoice does not include any document produced by a copy machine or similar device capable of producing a copy of an existing document. (7-1-98)
- **Records Required for Motor Fuels Tax Refunds**. Each claimant shall maintain records that are sufficient to prove the accuracy of the fuels tax refund claim. Such records shall include all motor fuels receipts, the gallons of tax-paid fuel used in each type of equipment, both taxable and nontaxable, and other uses. The records must show the date of receipt or disbursements and identify the equipment into which the tax-paid fuel is dispensed. Failure of the claimant to maintain the required records and to provide them for examination is a waiver of all rights to the refund. The following rules shall govern records maintained to support claims for refund. (4-11-06)
- use of Fuel from a Single Storage Tank. Idaho tax-paid fuel (other than fuel purchased by persons who operate motor vehicles that are licensed under IFTA or by persons who operate non-IFTA motor vehicles who claim refunds for nontaxable uses of motor fuels in motor vehicles granted in Rule 290 and Rule 292 of these rules) purchased and delivered into a single bulk storage tank and withdrawn for both nontaxable and taxable uses must be accounted for using either the proration provided by this paragraph or by records showing actual taxable and nontaxable usage. If the proration is used, sixty percent (60%) of all taxed diesel fuel or twenty-five percent (25%) of all taxed gasoline delivered into bulk storage shall be presumed to be for exempt uses unless another an alternate percentage is requested by the taxpayer and authorized by the State Tax Commission. The request shall itemize anticipated uses by type of equipment based on previously experienced use. The State Tax Commission will refund taxes paid on the percentage of taxed fuel presumed to be exempt. If refunds are claimed based on records of actual use, the records must be made available upon request. In either case, invoices showing the fuel purchases on which tax was paid must be retained to support each refund claim. The proration or another percentage granted by this paragraph cannot be used if you have separate storage tanks for undyed diesel and dyed diesel.
- b. Use of Fuel from Multiple Storage Tanks. When separate bulk storage tanks are maintained for both exempt and taxable uses, the seller must mark the invoices at the time of delivery, identifying the storage tanks into which the fuel was delivered. Detailed withdrawal records will only be required if fuel is used by in motor vehicles licensed registered under IFTA or by persons who operate non-IFTA motor vehicles who claim refunds for nontaxable uses of motor fuels in motor vehicles granted in Rule 290 and Rule 292 of these rules. All fuel invoices must be retained as required by Subsection 270.03 of this rule. Exempt fuel may not be used in motor vehicles licensed registered or required to be licensed.
- c. Use of Fuel for Other Than Bulk Storage. Fuel dispensed into small containers for use in, or into the supply tank of, stationary engines, equipment, commercial motorboats, or vehicles other than *licensed* registered motor vehicles, must be identified on the purchase invoice. No other records will be required.

 (7-1-98)(_____)

(BREAK IN CONTINUITY OF SECTIONS)

290. RECORDS REQUIRED FOR INTRASTATE SPECIAL FUELS USERS CLAIMING REFUNDS FOR NONTAXABLE SPECIAL FUELS USED IN MOTOR VEHICLES (RULE 290.)

01. Refund Claims, Required Records. Special fuel users, except IFTA licensees, must file a Form 75 with the relevant supplemental worksheet to claim a fuels tax refund. The following information is required to qualify for a refund except for claims based only on the power take-off allowances provided for in Rule 292 of these rules.

(4-5-00)

- **a.** Total miles. The total miles traveled should be included for motor vehicles which have nontaxable uses of special fuels. Special fuel users who qualify to use one of the "Standard MPGs" found in Subsection 290.02 need only record and report Idaho taxable miles. (4-5-00)
- **b.** Total fuel. The total number of gallons of fuel delivered into the supply tanks of the motor vehicles should be included for motor vehicles which have nontaxable uses of special fuels. The total miles figure and the total fuel figure must be for the same vehicles. (7-1-98)
- c. Actual miles per gallon. The miles per gallon shall be computed by dividing gallons determined according to Subsection 290.01.b. into the number of miles determined according to Subsection 290.01.a. The computation of fleet miles per gallon should be carried to three (3) decimal places and rounded to two (2) decimal places. Example: 4.514 = 4.51 and 4.515 = 4.52. (4-5-00)
- **d.** <u>Statutory</u> <u>Presumed</u> miles per gallon. In the event that the claimant fails to keep sufficiently detailed records showing the number of miles actually operated per gallon of special fuel consumed, it shall be presumed that one (1) gallon of special fuel was consumed for every: (4-5-00)(_____)
- i. Four (4) miles traveled by vehicles over forty thousand (40,000) pounds gross registered vehicle weight; or (7-1-98)
- ii. Five and one-half (5 1/2) miles traveled by vehicles from twenty-six thousand one (26,001) to forty thousand (40,000) pounds gross registered vehicle weight; or (7-1-98)
- iii. Seven (7) miles traveled by vehicles from twelve thousand one (12,001) to twenty-six thousand (26,000) pounds gross registered vehicle weight; or (7-1-98)
- iv. Ten (10) miles traveled by vehicles *from six thousand one* (6,001) to twelve thousand (12,000) pounds <u>or less</u> gross registered vehicle weight; <u>or.</u> (7-1-98)
- v. Sixteen (16) miles traveled by vehicles six thousand (6,000) pounds or less gross registered vehicle weight.
- e. The total taxable miles traveled in Idaho. Only taxable miles traveled in Idaho by the motor vehicles which have nontaxable uses of special fuels should be included. Taxable miles are miles driven on any road that is open to the use of the public and maintained by a governmental entity. Such roads may be constructed using concrete, asphalt, gravel, composition, dirt, or other surfaces. (7-1-98)
- f. The number of gallons of special fuels consumed in Idaho. The gallons consumed in Idaho shall be computed by dividing the miles per gallon determined according to Subsection 290.01.c. and 290.01.d. into the total taxable miles in Idaho according to Subsection 290.01.e. (4-5-00)
- **O2.** Alternative Refund Calculation for Special Fuels Users Engaged in Certain Industries. A special rule may be applied for motor vehicles, except IFTA licensees, that use special fuels and accrue both taxable and nontaxable miles. Operators of motor vehicles that use special fuels, except those licensed under IFTA, may, instead of using the computations provided in Subsections 290.01.c. and 290.01.d., presume that when engaged in operations in the following industries and accruing taxable miles in Idaho, that such motor vehicles consume fuel at the following rates:

Logging	4.3 MPG
Agricultural	4.5 MPG
Sand, gravel & rock hauling	4.0 MPG
Construction	4.4 MPG

(4-5-00)

- **03. Actual MPG Calculation**. If an operator has reason to believe the standard on-road miles per gallon (MPG) in Subsection 290.02. is not an accurate reflection of his specific operation, the operator can calculate an actual MPG using the computations provided in Subsection 290.01.c. or <u>statutory</u> <u>presumed</u> MPG provided in Subsection 290.01.d. (4-5-00)(_______)
- **04.** Claims Subject to Review or Audit. All fuels tax refund claims are subject to review or audit by the State Tax Commission. (4-5-00)

291. (RESERVED).

292. CALCULATION OF REFUNDS FOR NONTAXABLE USES OF MOTOR FUELS IN MOTOR VEHICLES. (RULE 292).

- **01. Fuel Records Required for Refund Claims**. Special fuels users may be eligible for a fuels tax refund of tax-paid special fuels if their motor vehicles have accrued nontaxable miles or have power take-off (PTO) equipment. Records must be kept as described in Subsection 290.01 of these rules. (4-5-00)
- **02. Nontaxable Miles Defined.** Nontaxable miles are miles driven on roads which are not open to the public, not maintained by a governmental entity, located on private property that are maintained by the property owner, or defined in Subsection 292.03 of this rule. Miles driven on a construction site would also be considered nontaxable miles and may be eligible for a special fuels tax refund. See Rule 130 of these rules regarding application of Idaho Sales and Use Taxes. (4-6-05)
- 03. Additional Nontaxable Roadways. Roadways defined in Section 63-2401, Idaho Code, include those constructed and maintained by the United States Forest Service, the United States Bureau of Land Management, the Idaho Department of Lands, or forest protective associations with which the state of Idaho has contracted or become a member pursuant to Chapter 1, Title 38, Idaho Code. The special fuels user must maintain records documenting nontaxable miles traveled on roadways that qualify for exclusion under this provision, unless using the "standard MPG" for its industry found in Subsection 290.02 of these rules. When special fuels users compute their special fuels tax liability or refund, they may exclude from total taxable miles traveled in Idaho the miles traveled on these roadways if the cost of maintaining the roadway pursuant to a contract or permit is primarily borne by them or if the special fuel user is a subcontractor of a prime contractor required by contract to bear the primary cost of maintaining the roadway. (3-15-02)
- **O4. Calculation.** Determine the number of taxable miles driven in Idaho following the procedure established in Subsection 290.01 of these rules. Divide this number by the actual MPG, the *statutory* presumed MPG established by Subsection 290.01 of these rules, or the industry standard MPG provided by Subsection 290.02 of these rules. Subtract this number of gallons from the total Idaho tax-paid gallons purchased for the subject vehicles. Motor fuels purchased from an Indian-owned retail outlet do not include the Idaho motor fuels tax and do not qualify as an Idaho tax-paid purchase. See definition of Indian-owned retail outlet in Rule 010 of these rules. (4-11-06)(_____)
- **O5. Power Take-Off and Auxiliary Engine Allowances (Allowances).** Power-take-off (PTO) allowances are available for special fuels powered vehicles. Auxiliary engine allowances are available for both special fuels and gasoline-powered vehicles. (4-5-00)
- **a.** Standard Allowances for Special Fuels. Nontaxable gallons of special fuels may be claimed when special fuels are used for purposes other than to operate, propel, or idle, as defined in Section 63-2401, Idaho Code, a motor vehicle and the fuel is drawn from the main supply tank of the motor vehicle. Examples of uses that qualify for allowances are turning a vehicle-mounted cement mixer or off-loading product. (4-6-05)
- **b.** Standard Allowances for Gasoline. Nontaxable gallons of gasoline may be claimed when gasoline is used in an auxiliary engine and the fuel is drawn from the main supply tank of the *licensed* registered motor vehicle. No claim for gasoline is allowed when gasoline is used by the *licensed* registered motor vehicle's main engine even to operate the motor vehicle's PTO unit.

 (3-15-02)(_____)

- **c.** Rates for Standard Allowances. The number of gallons of fuel actually delivered into the fuel tank of the vehicle may be reduced by the following allowances: (4-5-00)
 - i. Allowances based on unit quantities:

Allowance Type	Allowance Rates	х	Unit Quantities
Gasoline/fuel oil	0.00015 gallons	Х	Gallons pumped
Bulk cement	0.1858 gallons	Х	Tons pumped
Refrigeration unit/reefer	0.75 gallons	Х	Hours unit operated
Tree length timber/logs	0.0503 gallons	Х	Tons Hauled
Tree length timber/logs	3.46 gallons	Х	Hours unit operated
Carpet cleaning	0.75 gallons	Х	Hours unit operated
Concrete Pumping	0.142857 gallons	Х	Yards pumped

(4-11-06)

ii. Allowances based on percentages:

Allowance Type	Percentage Per Gallon	х	Gallons Consumed
Concrete mixing	30%	х	Gallons consumed
Garbage compaction	25%	х	Gallons consumed

(3-15-02)

06. Nonstandard Allowances. A request for an allowance not listed in Subsection 292.05 of this rule, or greater than those listed must be submitted by the taxpayer to the State Tax Commission for approval before being used. Taxpayers must request approval of the proposed allowance in writing with a copy of the supporting calculations used to compute the proposed allowance. Taxpayers must send requests for approval to:

FUELS TAX POLICY IDAHO STATE TAX COMMISSION P. O. BOX 36 BOISE, ID 83722-0410

The Idaho State Tax Commission may request additional information or documentation as needed in order to make a determination on the request. (4-6-05)

- **Nontaxable Gallons of Fuel Claimed by Non-IFTA Licensees**. The nontaxable gallons of fuel claimed by non-IFTA licensees may be the allowance gallons listed in Subsections 292.05 and 292.06 of this rule and/or the gallons calculated under Subsection 292.04 of this rule. Only actual MPGs, computed by adjusting total fuel as defined in Subsection 290.01 of these rules by the allowance gallons, may be used to calculate a fuels tax refund based on both nontaxable miles and allowances. Fuels tax refunds based solely on an allowance may be calculated without regard to mileage and fuel consumption (MPG) information. (4-11-06)
- **08. IFTA Licensees.** Qualifying for Power Take-Off (PTO) And Auxiliary Engine Allowances (Allowances). Allowances listed in Subsection 292.05 of this rule or established as provided in Subsection 292.06 of this rule may be granted for IFTA licensees by recomputing the total gallons of fuel consumed in all jurisdictions. IFTA licensees claiming refunds of Idaho fuels tax resulting from the allowances established in Subsections 292.05 and 292.06 of this rule, must file the claim on an Idaho Fuels Use Report Form 75 with the relevant supplemental

worksheet. (4-6-05)

- a. The IFTA licensee must recompute the total taxable fuel for Idaho by deducting the gallons determined by the allowances in all jurisdictions from the total number of gallons of fleet fuel consumed that was reported on the IFTA return. Using the new net gallons consumed, recompute the fleet miles per gallon. Apply the new fleet miles per gallon to the reported Idaho taxable miles to calculate the corrected Idaho taxable gallons. To calculate the Idaho nontaxable gallons available for refund, the licensee must subtract the recomputed taxable gallons for Idaho from the original taxable gallons reported for Idaho. This nontaxable gallon figure is then entered on the line labeled nontaxable gallons on the Form 75. (4-5-00)
- **b.** Additionally, a copy of the IFTA tax return for the period subject to the refund claim and a statement or worksheet showing how allowance was calculated must be included as an attachment to the Form 75. All refund claims are subject to review and audit, therefore, adequate documentation must be retained by the licensee.

 (4-5-00)
- ${f c.}$ IFTA licensees that used an assumed MPG when preparing their original IFTA return may not claim any additional refund. (4-5-00)

(BREAK IN CONTINUITY OF SECTIONS)

400. IFTA LICENSING AND SPECIAL FUELS PERMITTING REQUIREMENTS FOR MOTOR VEHICLES OVER TWENTY-SIX THOUSAND POUNDS MAXIMUM GROSS WEIGHT (RULE 400).

The following rules relate to the special fuels tax licensing system provided in Sections 63-2438 through 63-2440, Idaho Code, inclusive and, where expressly stated, supplements the requirements of IFTA. (7-1-98)

- **01. In General.** It is unlawful for any person to operate a motor vehicle over twenty-six thousand (26,000) pounds maximum registered gross weight or a motor vehicle with three (3) or more axles regardless of weight, that uses special fuels as defined in Section 63-2401, Idaho Code, on the highways of this state without having obtained one (1) of the following:
- **a.** A registration to operate the motor vehicle solely within this state under Section 49-434, Idaho Code. (7-1-98)
 - **b.** A temporary permit from the Idaho Transportation Department. (3-15-02)
 - c. An IFTA license. (7-1-98)
- **d.** In the case of vehicles powered by gaseous fuels, a gaseous fuel permit as provided by Section 63-2424, Idaho Code. (7-1-98)
- **O2. Federal or In-State Governmental Vehicles**. Motor vehicles owned or leased and operated by the federal government or the state of Idaho or their instrumentalities or political subdivisions are exempt from these requirements. (3-15-02)
- **Out-of-State Governmental Vehicles**. Motor vehicles owned or operated by another state of the United States or any agency or subdivision thereof are exempt from permitting and reporting under this rule if the state in which they are owned grants a reciprocal privilege to Idaho and its agencies and subdivisions. (7-1-98)
- **104. Temporary Permits.** Any person who operates a motor vehicle over twenty-six thousand (26,000) pounds maximum registered gross weight <u>or a motor vehicle with three (3) or more axles regardless of weight</u>, that uses special fuels on the highways of this state and is not registered solely for operation in this state under Section 49-434, Idaho Code, or IFTA licensed, shall secure a temporary permit from the Idaho Transportation Department in the manner provided and required by that department.

Obtain an IFTA License or a Temporary Permit. Operation of a motor vehicle over twenty-six thousand (26,000) pounds maximum registered gross weight or a motor vehicle with three (3) or more axles regardless of weight, that uses special fuels on the highways of this state without a registration to operate the motor vehicle solely within this state under Section 49-434, Idaho Code, an IFTA license or an Idaho temporary permit is hereby deemed to be an act tending to prejudice the collection of the special fuels tax and an act that renders wholly or partially ineffective the procedures for collection of that tax. Accordingly, any deputy of the Commission, including those designated as deputies in Section 300 of these rules, may issue a jeopardy assessment under the authority of Sections 63-2434 and 63-3065, Idaho Code. Such deputy is authorized to institute immediate collection procedures, including issuance of a tax warrant and distraint of the motor vehicle required to display, but failing to display, either an IFTA license or a temporary permit.

IDAPA 38 - DEPARTMENT OF ADMINISTRATION

38.04.06 - RULES GOVERNING PREQUALIFICATION OF CONTRACTORS ON CAPITOL BUILDING PROJECTS

DOCKET NO. 38-0406-0601

NOTICE OF RULEMAKING - TEMPORARY AND PROPOSED RULE

EFFECTIVE DATE: The effective date of the temporary rule is July 1, 2006.

AUTHORITY: In compliance with Sections 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has adopted a temporary rule, and proposed rulemaking procedures have been initiated. The action is authorized pursuant to Section(s) 67-5711C(4), Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, not later than August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is the required finding and concise statement of its supporting reasons for adopting a temporary rule and a nontechnical explanation of the substance and purpose of the proposed rulemaking: In the 2005 Legislative session, Section 67-5711C, Idaho Code, was amended to allow for prequalification. As amended, Section 67-5711C, Idaho Code, allows for rules regarding prequalification. In the 2006 Legislative session, the Legislature authorized the restoration and expansion of the capitol building. These rules on prequalification will help ensure contractors working on the capitol building have the required skills and experience for the work.

TEMPORARY RULE JUSTIFICATION: Pursuant to Section(s) 67-5226(1), Idaho Code, the Governor has found that temporary adoption of the rule is appropriate for the following reasons: Promulgation of rules on prequalification of contractors who work on the capitol building is necessary to protect the public health, safety or welfare and will confer a benefit.

FEE SUMMARY: Pursuant to Section 67-5226(2), the Governor has found that the fee or charge being imposed or increased is justified and necessary to avoid immediate danger and the fee is described herein: N/A

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year: N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because the substance and nature of the rules does not warrant negotiated rulemaking.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the temporary and proposed rule, contact Joanna L. Guilfoy, Deputy Attorney General, Department of Administration, at (208) 332-1832.

Anyone may submit written comments regarding the proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 26th day of June, 2006.

Joanna L. Guilfoy Deputy Attorney General Department of Administration 650 W. State Street P.O. Box 83720, Boise, Idaho 83720-0003

Telephone: (208) 332-1832 / Fax: (208) 334-2307

THE FOLLOWING IS THE TEXT OF DOCKET NO. 38-0406-0601

IDAPA 38 TITLE 04 CHAPTER 06

38.04.06 - RULES GOVERNING PREQUALIFICATION OF CONTRACTORS ON CAPITOL BUILDING PROJECTS

000. LEGAL AUTHORITY.

The following rules are promulgated in accordance with Section 67-5711C(4), Idaho Code.

(7-1-06)T

001. TITLE AND SCOPE.

- **01. Title**. These rules shall be cited as IDAPA 38.04.06, "Rules Governing Prequalification of Contractors on Capitol Building Projects." (7-1-06)T
- **O2. Scope.** Pursuant to Section 67-5711C(4), Idaho Code, contractors may be required to be prequalified to submit a competitive sealed bid to the Division of Public Works under Section 67-5711C, Idaho Code. These rules govern the prequalification process. (7-1-06)T

002. WRITTEN INTERPRETATIONS.

In accordance with Section 67-5201(19)(b)(iv), Idaho Code, this agency may have written statements that pertain to the interpretation of these rules or to the documentation of compliance with these rules. Any such documents are available for public inspection and copying at the office of this agency. (7-1-06)T

003. ADMINISTRATIVE APPEALS.

The provisions found in Sections 031 through 045 of these rules shall govern administrative appeals on prequalification. (7-1-06)T

004. EXEMPTION FROM ATTORNEY GENERAL'S ADMINISTRATIVE PROCEDURE RULES FOR CONTESTED CASES.

Pursuant to Section 67-5206(5), Idaho Code, except as provided in these rules, the procedures contained in Subchapter B, "Contested Cases," of the rules promulgated by the Attorney General as IDAPA 04.11.01, "Idaho Rules of Administrative Procedure of the Attorney General," Sections 100 through 799, do not apply to prequalification determination appeals.

(7-1-06)T

005. REASONS FOR EXEMPTION FROM ATTORNEY GENERAL'S ADMINISTRATIVE PROCEDURE RULES.

To prevent unnecessary delays and increased costs in the capitol restoration and expansion construction project, the rules of procedure in this chapter are adopted to promote the speedy resolution of prequalification determinations.

(7-1-06)T

006. INCORPORATION BY REFERENCE.

There are no documents incorporated by reference in this chapter.

(7-1-06)T

007. OFFICE -- OFFICE HOURS -- MAILING AND STREET ADDRESS.

The Division of Public Works is located at 502 N. 4th Street, Boise, Idaho, 83720-0072. The mailing address is P.O. Box 83720, Boise, Idaho 83720-0072. Office hours are 8:00 a.m. to 5:00 p.m., Monday through Friday. (7-1-06)T

008. PUBLIC RECORDS ACT COMPLIANCE.

All rules contained in this chapter are subject to and in compliance with the Idaho Public Records Act (Title 9,

DEPARTMENT OF ADMINISTRATION Prequalification of Contractors on Capitol Building Projects

Docket No. 38-0406-0601 Temporary and Proposed Rule

Chapter 3, Idaho Code). (7-1-06)T

009. -- 010. (RESERVED).

011. **DEFINITIONS.**

- **01. Administrator**. The administrator of the Division of Public Works. (7-1-06)T
- **O2.** Contractor. The person or entity seeking prequalification under these rules. (7-1-06)T
- **03. Director.** The director of the Department of Administration. (7-1-06)T
- **04. Restoration**. All work done to restore, renovate, refurbish, repair, modernize, improve, expand, update or upgrade the existing capitol building. (7-1-06)T

012. -- 015. (RESERVED).

016. PREQUALIFICATION.

With respect to any contract to be entered for any capitol building restoration project or projects, and any part thereof, when it is deemed to be in the best interest of the state, the Administrator may require any or all contractors, including general, prime, specialty or subcontractors, to be prequalified. If prequalification is used, the following conditions shall apply:

(7-1-06)T

- **01. License**. Only contractors properly licensed in Idaho to perform public works' contracts shall be eligible for prequalification. (7-1-06)T
- **02. Notice of Prequalification**. Notice of the prequalification requirement shall be given in the same manner that notice of open competitive bidding is provided. Notice must describe criteria to be used to evaluate contractors for prequalification. (7-1-06)T
- **03. Criteria for Prequalification.** The Administrator shall establish the procedures to be used for prequalification and the minimum criteria for prequalification. The criteria shall be relevant to the contractor's abilities to perform under a contract, its competence, experience, resources and performance history, and may address, but not be limited to, the following areas:

 (7-1-06)T
 - **a.** Financial status; (7-1-06)T
- **b.** Prior experience with the state and on other public works or private sector construction projects, including but not limited to the size, complexity and scope, and timely performance of the firm's prior projects; (7-1-06)T
- c. Reviews of previous public works or private sector construction projects within the last ten (10) years; (7-1-06)T
 - **d.** Overall performance history based on the contractor's entire body of work; (7-1-06)T
 - e. References; (7-1-06)T
 - **f.** Civil judgments and criminal history of the contractor and its principals; (7-1-06)T
 - g. Any debarment or suspension by any government agency; (7-1-06)T
 - **h.** Any revocation or suspension of a license; (7-1-06)T
 - i. Any bankruptcy filings or proceedings; and (7-1-06)T
 - j. Organization, including resumes of the management, key personnel and professional staff.

(7-1-06)T

- **04. Minimum Score**. The prequalification criteria may provide for submissions to be scored numerically and require a minimum score be attained for prequalification. (7-1-06)T
- **05. Statement Under Oath.** The Division of Public Works may require a statement under oath regarding the financial ability, responsibility, available nonfinancial resources, equipment, personnel, organization, ownership, relationships, prior experience and any other facts as may be deemed necessary. (7-1-06)T
- **06. Independent Inquiries**. In addition to consideration of the submission by the contractor in the prequalification process, the Division of Public Works may conduct independent inquiries relevant to a contractor's ability, competence, experience, resources and performance history, including contacting regulatory agencies and prior clients or customers, and the results of such may be considered in the prequalification determination. (7-1-06)T
- **07. Prequalification Review Committee.** The Administrator may establish a prequalification review committee to review contractor submissions and make a non-binding recommendation to the Administrator on prequalification. (7-1-06)T
- **08. Prequalification Determinations**. Prequalification determinations shall be made by the Administrator or his designee based on the established criteria. Contractors shall be notified in writing of the prequalification determinations. Any contractor denied prequalification shall be informed of the basis for such denial. (7-1-06)T
- **09. Competitive Sealed Bidding.** Competitive sealed bidding among only those prequalified to bid shall then be accomplished under, and award shall be made, to the lowest responsive and responsible bidder in accordance with Section 67-5711C, Idaho Code. (7-1-06)T
- 017. -- 030. (RESERVED).

031. APPEALS OF PREQUALIFICATION DETERMINATIONS.

The following rules apply to appeals of prequalification determinations.

(7-1-06)T

032. FILING OF APPEAL.

The notice of appeal must be in writing, signed by the disqualified contractor or his representative, and must be received at the office of the Director, 650 W. State Street, P.O. Box 83720, Boise, Idaho 83720-0003, no later than seven (7) days from the date the notice of disqualification was given. The notice must explain in detail why the prequalification determination is considered erroneous. (7-1-06)T

033. HEARING OFFICER.

The Director shall appoint a hearing officer to conduct a contested case hearing in accordance with Chapter 52, Title 67, Idaho Code. (7-1-06)T

034. NOTICE OF HEARING.

A notice of hearing shall be provided to the disqualified contractor, giving at least ten (10) days' advance notice of the hearing. The hearing will be held in Ada County, at such place as may be designated in the hearing notice. Upon concurrence of the parties and the hearing officer, hearings may be conducted telephonically. (7-1-06)T

035. BRIEFS AND MEMORANDA.

Any party may make a request in writing to the hearing officer to file briefs, memoranda, proposed orders or statements of position and the hearing officer shall grant or deny such request as the hearing officer deems appropriate under the circumstances of a particular case. The hearing officer may request briefs, memoranda, proposed orders or statements of position.

(7-1-06)T

036. RULES OF EVIDENCE.

The hearing officer shall control the hearing and direct the order or presentation. A party shall be entitled to introduce evidence, examine and cross-examine witnesses, make arguments and generally participate in the conduct of the proceedings. (7-1-06)T

037. ADMISSION OF EVIDENCE.

The admission of evidence at hearings shall be governed by Sections 600 through 609 of the IDAPA 04.11.01, "Idaho Rules of Administrative Procedure of the Attorney General." (7-1-06)T

038. TESTIMONY.

Testimony to be considered by the hearing officer in the hearing shall be by sworn testimony, except for matters noticed or entered by stipulation. (7-1-06)T

039. DISCOVERY.

Discovery may be conducted in the manner and to the extent allowed by the Idaho Rules of Civil Procedure only if first formally agreed to by the parties, or by order of the hearing officer after an application has been filed and a showing that discovery is required to clarify issues, identify witnesses or preserve testimony. The order may limit the scope of discovery and the method of discovery as the hearing officer deems appropriate under the circumstances of a particular case.

(7-1-06)T

040. RECORDING AND TRANSCRIPTION.

The hearing will be recorded by electrical device. A written transcript will be produced by the department upon request of either party. A disqualified contractor requesting such transcript shall be responsible for the cost of the transcript. Any party wishing to have the hearing recorded by a qualified court reporter must request such no less than five (5) business days in advance of the date set for hearing. The requesting party shall pay the cost of the reporter's fees and shall provide a copy to the hearing officer. The non-requesting party may pay for an additional copy for its own use.

(7-1-06)T

041. WITNESSES AND EVIDENCE.

The hearing officer, on its own or upon application of the disqualified contractor or the Department of Administration, may issue subpoenas for the attendance of witnesses and production of documents. (7-1-06)T

042. FINDINGS OF FACT AND CONCLUSIONS OF LAW.

Once the matter is fully submitted, the hearing officer shall issue findings of fact, conclusions of law and preliminary order. The hearing officer shall uphold the Administrator's prequalification determination unless he finds it arbitrary, capricious or an abuse of discretion. Copies shall be provided to all parties. (7-1-06)T

043. FINAL ORDER.

Upon receipt thereof, the Director shall issue a final order, affirming, modifying or reversing the original prequalification determination. Copies shall be provided to all parties. (7-1-06)T

044. MOTIONS FOR RECONSIDERATION.

Motions for reconsideration of the hearing officer's preliminary order or of the Director's final order are not allowed.

(7-1-06)T

045. APPEALS.

Appeals from the final order shall be taken in accordance with Section 67-5270, Idaho Code.

(7-1-06)T

046. -- 999. (RESERVED).

IDAPA 39 - IDAHO TRANSPORTATION DEPARTMENT

39.02.73 - RULES GOVERNING ACCIDENT PREVENTION COURSE DOCKET NO. 39-0273-0601

NOTICE OF RULEMAKING - TEMPORARY AND PROPOSED RULE

EFFECTIVE DATE: The effective date of the temporary rule is July 1, 2006.

AUTHORITY: In compliance with Sections 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has adopted a temporary rule, and proposed regular rulemaking procedures have been initiated. The action is authorized pursuant to Section(s) 41-2515 and 49-201, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, not later than August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is the required finding and concise statement of its supporting reasons for adopting a temporary rule and a nontechnical explanation of the substance and purpose of the proposed rulemaking:

This rulemaking is necessary for compliance with Code changes in House Bill 462, effective July 1, 2006, which lowers the age requirement to receive an insurance premium reduction benefit for taking the Accident Prevention Course, from age 65 years or older to age 55 years or older.

TEMPORARY RULE JUSTIFICATION: Pursuant to Sections 67-5226(1)(b) and (c), Idaho Code, the Governor has found that temporary adoption of the rule is appropriate for the following reasons:

Compliance with Code changes in House Bill 462, effective July 1, 2006, and conferring a benefit for drivers between the age of 55 years and 65 years.

FEE SUMMARY: Pursuant to Section 67-5226(2), the Governor has found that the fee or charge being imposed or increased is justified and necessary to avoid immediate danger and the fee is described herein: N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because the proposed rule change is in response to legislative action.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the temporary and proposed rule, contact Ed Pemble, Driver Services Manager, 332-7830.

Anyone may submit written comments regarding the proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 21st day of June, 2006.

Linda L. Emry, Management Assistant Budget, Policy, and Intergovernmental Relations Idaho Transportation Department 3311 West State Street P O Box 7129 Boise ID 83707-1129 Phone – 208-334-8810 FAX – 208-334-8195

THE FOLLOWING IS THE TEXT OF DOCKET NO. 39-0273-0601

001. TITLE AND SCOPE.

- **01. Title**. This rule shall be known as IDAPA 39.02.73 "Rules Governing Accident Prevention Course," IDAPA 39, TITLE 02, Chapter 73, (5-3-03)
- **O2. Scope**. This rule establishes minimum standards for approval of a motor vehicle accident prevention course *for the instruction of motor vehicle operators who are sixty-five* (65) *years of age or older*, as provided in Section 41-2515, Idaho Code. (5-3-03)(7-1-06)T

(BREAK IN CONTINUITY OF SECTIONS)

007. -- 0<u>90</u>9. (RESERVED).

<u>010.</u> <u>DEFINITIONS.</u>

O1. Accident Prevention Course. A structured course of study, either in a traditional classroom setting, field driving or internet based format, with curriculum focusing on becoming a safer driver and avoiding accidents, by being cautious, aware, responsible, and respectful of other drivers while abiding by Idaho's rules of the road. The terms "accident prevention course" and "defensive driving class" shall be interchangeable, and the course standards established for the accident prevention course in this rule shall be the same standards for the defensive driving class for violation point count reduction as provided in IDAPA 39.02.71, "Rules Governing Driver's License Violation Point Count System."

<u>011. -- 099.</u> (RESERVED).

IDAPA 39 - IDAHO TRANSPORTATION DEPARTMENT

39.03.11 - RULES GOVERNING OVERLEGAL PERMITTEE RESPONSIBILITY AND TRAVEL RESTRICTIONS

DOCKET NO. 39-0311-0601

NOTICE OF RULEMAKING - TEMPORARY AND PROPOSED RULE

EFFECTIVE DATE: The effective date of the temporary rule is August 1, 2006.

AUTHORITY: In compliance with Sections 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has adopted a temporary rule, and proposed regular rule-making procedures have been initiated. The action is authorized pursuant to Section(s) 40-312 and 49-1004, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, not later than August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is the required finding and concise statement of its supporting reasons for adopting a temporary rule and a nontechnical explanation of the substance and purpose of the proposed rule-making:

Due to ever increasing traffic volumes in and around certain urban areas during the hours of high-commuter traffic (6:30 a.m. to 8:30 a.m. and 4:00 p.m. to 6:00 p.m.), this rule is being modified to restrict over-width permitted vehicles from operating on certain sections of both state and interstate highways in those specified locations. There is a minimal impact to industry since they are already subject to high commuter traffic restrictions on non-interstate state highways.

TEMPORARY RULE JUSTIFICATION: Pursuant to Sections 67-5226(1)(a), Idaho Code, the Governor has found that temporary adoption of the rule is appropriate for the following reasons:

Restricting over-width permitted vehicles from operating on certain section of interstate highways during the hours of high-commuter traffic will protect the public safety.

FEE SUMMARY: Pursuant to Section 67-5226(2), the Governor has found that the fee or charge being imposed or increased is justified and necessary to avoid immediate danger and the fee is described herein: N/A

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year: N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because immediate implementation will protect the public safety of the traveling public by reducing the congestion already occurring on some stretches of interstate highways.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the temporary and proposed rule, contact Alan Frew, Motor Vehicle Division Administrator, 334-8809.

Anyone may submit written comments regarding the proposed rule-making. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 21st day of June, 2006.

IDAHO TRANSPORTATION DEPARTMENT Overlegal Permittee Responsibility & Travel Restrictions

Docket No. 39-0311-0601 Temporary & Proposed Rulemaking

Linda L. Emry, Management Assistant Budget, Policy, and Intergovernmental Relations Idaho Transportation Department 3311 West State Street P O Box 7129, Boise ID 83707-1129 Phone – 208-334-8810 FAX – 208-334-8195

THE FOLLOWING IS THE TEXT OF DOCKET NO. 39-0311-0601

100. RESPONSIBILITY OF PERMITTEE.

O1. General Responsibilities. The permittee shall determine and declare the gross weight, distribution of weight, and the dimensions of the vehicle and load and shall submit all other required information before issuance of the permit. The acceptance of a overlegal permit by the permittee is his agreement that the vehicle and load covered by the permit can and will be moved in compliance with the terms and limitations set forth in the permit. When a permit has been accepted by the permittee, such action shall be deemed an unequivocal assurance that he has complied, or will comply with all operating, licensing, and financial responsibility requirements. (4-5-00)

02. Permit to Be Carried in Vehicle.

(1-3-93)

a. The overlegal permit must be carried in the vehicle to which it refers during the time of movement and shall upon demand be delivered for inspection to any peace officer or authorized agent of the Idaho Transportation Board or any officer or employee charged with the care and protection of the public highways. The original ITD-217E annual permit must be carried in the vehicle within sixty (60) days of the date of issue.

(4-5-00)(8-1-06)T

- b. When the route of the permitted vehicle will not pass in the vicinity of a state operated transceiver station, the applicant may complete Form ITD-217-196, APPLICATION FOR OVERLEGAL PERMIT NUMBER, and provide pertinent information by telephone to the overlegal permit office. If the overlegal permit office approves the application, a overlegal permit number will be assigned to complete the Form ITD-217-196. Form ITD-217-196 will serve as evidence of intent to obtain the overlegal permit and will be honored by law enforcement subject to the officer checking with the overlegal permit office. The applicant must qualify for this procedure by obtaining a permit fee account number. The overlegal permit office will complete the Overlegal Permit Form ITD-2176 and charge the fee to the applicant's permit fee account number. (IDAPA 39.03.21, "Rules Governing Special Permit Fees," Section 300.)
- **03. Certification Load Is Non-Reducible.** Upon application, the permittee must certify that steps have been taken to reduce the dimensions and/or weight of vehicle and/or load concerned in the permit to legal limitations, or if that is impractical, to reduce the excess to a minimum. (8-25-94)
- **04. Basic Limitations Shall Not Be Exceeded.** Overlegal permits shall not be issued for vehicles or loads in excess of the maximum limitations of size or weight or which otherwise exceed the limitations for over legal loads as set forth in these rules unless exception is made by the Transportation Board, or as otherwise provided herein. (4-5-00)

05. Movement, Traffic Control Plans, Loading, Parking on State Highways. (1-3-93)(8-1-06)T

a. The movement of over legal loads shall be made in such a way that the traveled way will remain open at all times to provide for the continuous movement of opposing traffic as often as feasibly possible and to provide for frequent passing of vehicles traveling in the same direction. Over legal vehicles or loads shall be pulled off the traveled way at every suitable location when necessary to relieve any accumulation of traffic behind such over

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legal vehicle or load. In order to achieve this a traffic control plan is required to be submitted when operating on two (2) lane highways and exceeding the following dimensions: (10-2-89)(8-1-06)T

<u>i.</u> Width exceeds twenty (20) feet.

(8-1-06)T

ii. Length exceeds one hundred fifty (150) feet.

(8-1-06)T

- **b.** The traffic control plan shall be prepared by a licensed engineer or an American Traffic Safety Services Association (ATSSA) certified traffic control supervisor and include the following information: (8-1-06)T
 - i. Locations and mileposts of where the vehicle/load can pull over to allow for traffic relief;

(8-1-06)T

ii. How pilot cars and traffic control personnel will be utilized;

(8-1-06)T

- $\frac{\text{iii.}}{\text{governing entity; and}} \qquad \frac{\text{Identification of any railroad tracks being crossed and the emergency contact number for the}}{\text{(8-1-06)T}}$
 - iv. Procedure for allowing emergency vehicles to navigate around the vehicle/load when necessary. (8-1-06)T
- **bc.** The over legal vehicle shall not be loaded, unloaded or parked, upon any State highway, except for emergencies, without the specific permission or by direction of the Department or policing agency having jurisdiction over such highway. (1-3-92)

101. -- 199. (RESERVED).

200. TIME OF TRAVEL RESTRICTIONS FOR OVER LEGAL LOADS.

Oversize loads may be transported on Idaho Highways subject to the following conditions:

(10-2-89)

- **Red-Coded Routes**. Daylight travel until 2 p.m. on Friday, no Saturday, no Sunday. Due to low traffic volumes on these routes early in the mornings of Saturday and Sunday, single trip permits may be issued for dawn to 8 a.m. If the movement is not completed by 8 a.m. the permittee will be required to safely park and not proceed until the next day.

 (4-5-00)
- **02. Black-Coded Routes**. Loads not in excess of ten (10) feet wide, one hundred (100) feet long or fourteen (14) feet six (6) inches high may travel twenty-four (24) hours per day, seven (7) days per week; loads in excess of ten (10) feet wide, one hundred (100) feet long or fourteen (14) feet six (6) inches high may travel daylight hours seven (7) days per week. (12-26-90)
- **03. Interstate**. Loads not in excess of ten (10) feet wide, one hundred and twenty (120) feet long or fourteen (14) feet six (6) inches high may travel twenty-four (24) hours per day, seven (7) days per week; loads in excess of ten (10) feet wide, one hundred and twenty (120) feet long or fourteen (14) feet six (6) inches high may travel daylight hours, seven (7) days per week. (4-5-00)

04. Additional Restrictions.

(8-25-94)

- a. Red-Coded Routes: No travel for any load after 2 p.m. on the day preceding a holiday or holiday weekend. A holiday weekend occurs as three (3) consecutive days, when a designated holiday occurs on a Friday or Monday, or when the designated holiday occurs on a Saturday or Sunday, in which case the preceding Friday or the following Monday shall be included in such three (3) day holiday weekend. Travel may be resumed at dawn on the day following the holiday or holiday weekend. (4-5-00)
- **b.** Black-Coded Routes and Interstate Routes: Loads in excess of ten (10) feet wide, one hundred (100) feet long or fourteen (14) feet six (6) inches high may not travel after 4:00 p.m. on the day preceding a holiday; travel may be resumed at dawn on the day following the holiday. (4-5-00)

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- **c.** The following days are designated as holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas. (8-25-94)
- **d.** Additional restrictions relating to movement of buildings and houses are listed in IDAPA 39.03.18, "Rules Governing Overlegal Permits for Relocation of Buildings or Houses," Section 400. (4-5-00)
 - **e.** Other time of travel restrictions may be noted on the permit due to special circumstances.

(8-25-94)

- **05. Hours Of Darkness**. Hours are defined as extending from one-half (1/2) hour after sundown to one-half (1/2) hour before sun rise or at any other time when visibility is restricted to less than five hundred (500) feet. (4-5-00)
- which are in excess of twelve thirteen (123) feet in width, in excess of eighty five (85) feet in length, or in excess of sixteen (16) feet in height may be prohibited from movement on highways all state and interstate within one (1) mile of the urban city limits of the following cities: Boise, Caldwell, Coeur d'Alene, Eagle, Emmett, Idaho Falls, Lewiston, Meridian, Middleton, Nampa, Pocatello, Star, Twin Falls, Garden City, and Chubbuck at times of heavy commuter traffic. Authorized oversize permitted vehicles operating during hours of heavy commuter traffic shall be restricted to the furthest right hand lane. Emergency movement of vehicles/loads responding to imminent hazards to persons or property shall be exempt from the provisions of Section 200. Unless otherwise defined on the permit, the times of heavy commuter traffic shall be considered to be 6:30 a.m. to 8:30 a.m., 11:30 a.m. to 1:30 p.m. and 4 p.m. to 6 p.m. Monday through Friday except as noted under Holiday restrictions. This restriction may not apply to sections of completed Interstate Highway within the above listed cities. Such a restriction of oversize load travel to avoid conflict with heavy commuter traffic volumes shall appear on the face of the permit. Restrictions to the operation of oversize permitted vehicles and/or loads during times of heavy commuter traffic shall appear either on the face of the permit or in the attachments for annual permits.
- **O7. Hazardous Travel Conditions Restrictions**. Extreme caution in the operation of permitted vehicle combinations shall be exercised when hazardous conditions exist. The movement of overlegal vehicles and/or loads by overlegal permit shall be prohibited and otherwise valid permits shall automatically become invalid enroute when travel conditions become hazardous due to ice, snow or frost; when visibility is restricted to less than five hundred (500) feet by fog, dust, smoke or smog or other atmospheric conditions. (3-10-05)
- **08. Delaying Movement**. Enforcement personnel responsible for any section of highway may delay movements and carry out enforcement action for violations involving overlegal permit operations. (4-5-00)
- **09. Map Resources**. The Pilot/Escort Vehicle and Travel Time Requirement Map is available at the Idaho Transportation Department Overlegal Permit Office, and Ports of Entry, and District Offices. (4-5-00)

IDAPA 39 - IDAHO TRANSPORTATION DEPARTMENT

39.03.22 - RULES GOVERNING OVERLEGAL PERMITS FOR EXTRA-LENGTH VEHICLE COMBINATIONS

DOCKET NO. 39-0322-0601

NOTICE OF RULEMAKING - TEMPORARY AND PROPOSED RULE

EFFECTIVE DATE: The effective date of the temporary rule is July 1, 2006.

AUTHORITY: In compliance with Sections 67-5221(1) and 67-5226, Idaho Code, notice is hereby given that this agency has adopted a temporary rule, and proposed regular rulemaking procedures have been initiated. The action is authorized pursuant to Section(s) 40-312 and 49-1004, Idaho Code.

PUBLIC HEARING SCHEDULE: Public hearing(s) concerning this rulemaking will be scheduled if requested in writing by twenty-five (25) persons, a political subdivision, or an agency, not later than August 16, 2006.

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made not later than five (5) days prior to the hearing, to the agency address below.

DESCRIPTIVE SUMMARY: The following is the required finding and concise statement of its supporting reasons for adopting a temporary rule and a nontechnical explanation of the substance and purpose of the proposed rulemaking:

Temporary rulemaking is necessary for compliance with House Bill 561, effective July 1, 2006. The code changes prohibit the use of single tires on single axles or within groups of axles, except for steering axles, self-steering variable load suspension axles, or unless equipped with wide-base tires fifteen inches wide or greater. Use of the "super single" tire contributes to more efficient trucking due to the lower weight which allows more payload per trip and possibly few trips, resulting in lower operating costs and reduced emissions.

TEMPORARY RULE JUSTIFICATION: Pursuant to Sections 67-5226(1)(b), Idaho Code, the Governor has found that temporary adoption of the rule is appropriate for the following reasons:

Compliance with code changes in House Bill 561, effective July 1, 2006.

FEE SUMMARY: Pursuant to Section 67-5226(2), the Governor has found that the fee or charge being imposed or increased is justified and necessary to avoid immediate danger and the fee is described herein: N/A

NEGOTIATED RULEMAKING: Pursuant to IDAPA 04.11.01.811, negotiated rulemaking was not conducted because the rule change is necessary for compliance with changes to Idaho Code.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning the temporary and proposed rule, contact Alan Frew, Motor Vehicle Division Administrator, 334-8809.

Anyone may submit written comments regarding the proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before August 23, 2006.

DATED this 30th day of June, 2006.

Linda L. Emry, Management Assistant Budget, Policy, and Intergovernmental Relations Idaho Transportation Department 3311 West State Street P O Box 7129, Boise ID 83707-1129 Phone – 208-334-8810 / FAX – 208-334-8195

THE FOLLOWING IS THE TEXT OF DOCKET NO. 39-0322-0601

200. CONDITIONS AND REQUIREMENTS FOR EXTRA-LENGTH.

Extra-length vehicle combinations shall be subject to the following conditions, limitations, and requirements:

(10-2-89)

- **O1. Extra-Length Vehicle Combinations**. Vehicle combinations operating with an overall length in excess of the limits imposed in Section 49-1010, Idaho Code, shall consist of not more than four (4) units, shall not exceed one hundred fifteen (115) feet overall and no such vehicle combination shall include more than three (3) cargo units except that a full truck and full trailer may have an overall length in excess of seventy-five (75) feet but not in excess of eighty-five (85) feet including load overhang. (3-20-04)
 - **02. Routes for Extra-Length Operations.** Shall be designated in four (4) categories: (9-4-91)
- a. Routes for combinations not exceeding ninety (90) feet in overall length including load overhang (blue-coded routes). An extra-length combination operating on routes designated for ninety (90) foot combinations shall be designed and assembled in a manner whereby its maximum off-tracking will not exceed five point five zero (5.50) feet on a one hundred sixty-five (165) foot radius when computed by the equation developed by Western Highway Institute (WHI) for computation of maximum vehicular off-track. (3-22-00)
- **b.** Routes for combinations of vehicles not exceeding one hundred fifteen (115) feet in overall length including load overhang (red-coded routes). An extra-length combination operating on routes designated for one hundred fifteen (115) foot combinations shall be designed and assembled in a manner whereby its maximum off-tracking will not exceed six point five zero (6.50) feet on a one hundred sixty-five (165) foot radius when computed by the WHI equation referred to above. (3-20-04)
- c. Interstate system routes and specified interchanges providing access to approved breakdown areas located in close proximity to the Interstate system (black-coded routes). An extra-length combination operating on routes in this category shall be designed and assembled in such a manner that its off-tracking may exceed six point five zero (6.50) feet but shall not exceed eight point seventy-five (8.75) feet when computed by the WHI equation referred to above. Specified interchanges providing access to approved breakdown areas are required to be used by combinations that exceed six point five zero (6.50) feet off-tracking. The specified interchanges will be authorized for either combinations in excess of six point five zero (6.50) feet off-tracking, but not in excess of seven (7) feet off-tracking, or for combinations in excess of seven (7) feet off-tracking but not in excess of eight point seventy-five (8.75) feet off-tracking.
- **d.** Selected state highway routes (green coded routes) for operation of an extra-length combination whereby its maximum off-tracking will not exceed three (3) feet on a one hundred sixty-five (165) foot radius when computed by the WHI equation and its overall length including load overhang does not exceed eighty-five (85) feet. Route approval shall be subject to analysis of pavement condition, bridge capacity, safety considerations, pavement width, curvature, traffic volumes and traffic operations. (8-25-94)
- **03. Power Unit**. The power unit of extra-length combinations shall have adequate power and traction to maintain a minimum of fifteen (15) miles per hour under normal operating conditions on any up-grade over which the combination is operated. (10-2-89)
- **04. Connecting Devices**. Fifth wheel, drawbar, and other coupling devices shall be as specified by Federal Motor Carrier Safety Regulations, Part 393, which shall be considered to be a part of this rule. (10-2-89)
- **05. Weather Restrictions**. Extreme caution in the operation of an extra length vehicle combination shall be exercised when hazardous conditions such as those caused by snow, ice, sleet, fog, mist, rain, dust, or smoke adversely affect visibility or traction. Speed shall be reduced when such conditions exist. When conditions become sufficiently dangerous, the company or the operator shall discontinue operations and operations shall not be resumed until the extra length vehicle combination can be safely operated. The state may restrict or prohibit operations during periods when in the state's judgment traffic, weather, or other safety conditions make such operations unsafe or

IDAHO TRANSPORTATION DEPARTMENT Overlegal Permits for Extra-Length Vehicle Combinations

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inadvisable. (8-25-94)

- **06. Trailer Weight Sequence.** In any extra-length combination, the respective loading of any trailer shall not be substantially greater than the weight of any trailer located ahead of it in the vehicle combination. (Substantially greater shall be defined as more than four thousand (4,000) pounds heavier.) (10-2-89)
- **07. Operating Restrictions**. Operators of all vehicle combinations governed by this rule shall comply with the following operating restrictions: (8-25-94)
- **a.** A minimum distance of five hundred (500) feet shall be maintained between combinations of vehicles except when overtaking and passing. (10-2-89)
- **b.** Except when passing another vehicle traveling in the same direction, the combination shall be driven so as to remain at all times on the right hand side of the centerline of a two (2) lane, two (2) way highway, or on the right hand side of a lane stripe or marker of a highway of four (4) or more lanes. (1-1-90)
 - c. Be in compliance with all Federal Motor Carrier Safety Regulations. (3-22-00)
- **08. Insurance Requirements.** Every combination operated under this rule shall be covered by insurance of not less than five hundred thousand dollars (\$500,000) combined single limit. The permittee or driver of the permitted vehicle combination shall carry in the vehicle evidence of insurance written by an authorized insurer to certify that insurance in this minimum amount is currently in force. (8-25-94)
- **109. Tire Limitations.** All axles on extra-length vehicle combinations shall be equipped with four (4) tires except on the steering axle, and on axles which are in tandem axle groups or other multiple axle groups variable load suspension axles (VLS -lift axles), or axles equipped with fifteen (15) inch wide or wider single tires.

IDAPA 58 - DEPARTMENT OF ENVIRONMENTAL QUALITY

58.01.01 - RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO

DOCKET NO. 58-0101-0601

NOTICE OF RULEMAKING - PROPOSED RULEMAKING

AUTHORITY: In compliance with Section 67-5221(1), Idaho Code, notice is hereby given that this agency has proposed rulemaking. The action is authorized by Sections 39-105 and 39-107, Idaho Code.

PUBLIC HEARING SCHEDULE: A public hearing concerning this proposed rulemaking will be held as follows:

September 6, 2006 at 4:00 p.m. Department of Environmental Quality Conference Center 1410 N. Hilton, Boise, Idaho

The hearing site(s) will be accessible to persons with disabilities. Requests for accommodation must be made no later than five (5) days prior to the hearing. For arrangements, contact the undersigned at (208) 373-0418.

DESCRIPTIVE SUMMARY: The Department of Environmental Quality (DEQ) is tasked with developing a plan to address Regional Haze in Class I Wilderness Areas within Idaho and other Class I areas impacted by Idaho by December 17, 2007 as required by the Federal Clean Air Act, Regional Haze Rule, 40 CFR 51.308. The intent of the Regional Haze Rule is to reduce the impacts of man-made visibility impairing pollutants on Class I areas by 2064. The first implementation plan will cover the time period from 2008 through 2018. The plan will set "Reasonable Progress Goals" and develop control strategies to attain the progress goals.

Through the negotiated rule process, rules were drafted that provide DEQ with the authority to develop "Long-Term Strategies" for making reasonable progress toward improving visibility in mandatory Class I Federal Areas. The proposed rule also provides DEQ with the authority to establish "Reasonable Progress Goals," based on emission reduction control strategies identified through the "Long-Term Strategies" and the implementation of Best Available Retrofit Technologies, in order to obtain the goals and satisfy other requirements under 40 CFR 51.308 and Subpart P -- Protection of Visibility requirements.

The text of this rule was developed by DEQ in conjunction with a negotiating committee made up of persons having an interest in the development of this rule including industry representatives, federal land managers, and public officials. BART-eligible and other sources of air pollution may be affected by this rulemaking and may wish to submit comment. Representatives of the industrial community, special interest groups, public officials, federal land managers, metropolitan planning organizations, or members of the public who have an interest in the air quality in Idaho may also wish to comment on this proposed rule. The proposed rule text is in legislative format. Language the agency proposes to add is underlined. Language the agency proposes to delete is struck out. It is these additions and deletions to which public comment should be addressed.

After consideration of public comments, DEQ intends to present the final proposal to the Board of Environmental Quality in October 2006 for adoption of a pending rule. The rule is expected to be final and effective upon the adjournment of the 2007 legislative session if adopted by the Board and approved by the Legislature.

IDAHO CODE 39-107D STATEMENT: This proposed rule does not regulate an activity not regulated by the federal government, nor is it broader in scope or more stringent than federal regulations.

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year: N/A

NEGOTIATED RULEMAKING: The text of the rule has been drafted based on discussions held and concerns raised during negotiations conducted pursuant to Idaho Code Section 67-5220 and IDAPA 04.11.01.812-815. The Notice of Negotiated Rulemaking was published in the Idaho Administrative Bulletin, January 4, 2006, Vol. 06-1, page 296.

GENERAL INFORMATION: For more information about DEQ's programs and activities, visit DEQ's web site at www.deq.idaho.gov.

ASSISTANCE ON TECHNICAL QUESTIONS AND SUBMISSION OF WRITTEN COMMENTS: For assistance on technical questions concerning this rulemaking, contact Mike Edwards at (208) 373-0438, mike.edwards@deq.idaho.gov.

Anyone may submit written comments by mail, fax or e-mail at the address below regarding this proposed rule. DEQ will consider all written comments received by the undersigned on or before September 6, 2006.

DATED this 30th day of June, 2006.

Paula J. Wilson Hearing Coordinator Department of Environmental Quality 1410 N. Hilton Boise, Idaho 83706-1255 (208)373-0418/Fax No. (208)373-0481 paula.wilson@deq.idaho.gov

THE FOLLOWING IS THE TEXT OF DOCKET NO. 58-0101-0601

006. GENERAL DEFINITIONS.

- **01. Accountable**. Any SIP emission trading program must account for the aggregate effect of the emissions trades in the demonstration of reasonable further progress, attainment, or maintenance. (4-5-00)
- **02.** Act. The Environmental Protection and Health Act of 1972 as amended (Sections 39-101 through 39-130, Idaho Code). (5-1-94)
- **03. Actual Emissions**. The actual rate of emissions of a pollutant from an emissions unit as determined in accordance with the following: (4-5-00)
- a. In general, actual emissions as of a particular date shall equal the average rate, in tons per year, at which the unit actually emitted the pollutant during a two-year period which precedes the particular date and which is representative of normal source operation. The Department shall allow the use of a different time period upon a determination that it is more representative of normal source operation. Actual emissions shall be calculated using the unit's actual operating hours, production rates, and types of materials processed, stored, or combusted during the selected time period.

 (4-5-00)
- **b.** The Department may presume that the source-specific allowable emissions for the unit are equivalent to actual emissions of the unit. (4-5-00)
- **c.** For any emissions unit (other than an electric utility steam generating unit as specified below) which has not yet begun normal operations on the particular date, actual emissions shall equal the potential to emit of the unit on that date. (4-5-00)
- **d.** For an electric utility steam generating unit (other than a new unit or the replacement of an existing unit) actual emissions of the unit following the physical or operational change shall equal the representative actual annual emissions of the unit, provided the source owner or operator maintains and submits to the Department, on an annual basis for a period of five (5) years from the date the unit resumes regular operation, information demonstrating

that the physical or operational change did not result in an emissions increase. A longer period, not to exceed ten (10) years may be required by the Department if it determines such a period to be more representative of normal source post-change operations. (4-5-00)

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	<u>04.</u>	Adverse Impact on Visibility. Visibility impairment which interferes with the manager	ment,
protection	on, prese	ervation, or enjoyment of the visitor's visual experience of the Federal Class I Area.	This
		ust be made on a case-by-case basis taking into account the geographic extent, intensity, duration of visibility imposing and how these feature correlate with	ation,
requen	cy, and th	me of visibility impairments, and how these factors correlate with:)
	<u>a.</u>	Times of visitor use of the Federal Class I Area; and)
	<u>b.</u>	The frequency and timing of natural conditions that reduce visibility.)
	<u>c.</u>	This term does not include affects on integral vistas when applied to 40 CFR 51.307.)
mist, od	04<u>5</u>. or, smok	Air Pollutant/Air Contaminant . Any substance, including but not limited to, dust, fume e, vapor, pollen, soot, carbon or particulate matter or any combination thereof. (4-	, gas, 5-00)
		Air Pollution . The presence in the outdoor atmosphere of any air pollutant or combination the of such nature and duration and under such conditions as would be injurious to human head or plant life, or to property, or to interfere unreasonably with the enjoyment of life or property (4-	lth or
time.	0 6 7.	Air Quality . The specific measurement in the ambient air of a particular air pollutant at any (5-	given 1-94)
quality g	07<u>8</u>. goals and	Air Quality Criterion . The information used as guidelines for decisions when establishing air quality standards. (5-	ng air 1-94)
	able limit	Allowable Emissions . The allowable emissions rate of a stationary source or facility calculum rated capacity of the source or facility (unless the source or facility is subject to feders which restrict the operating rate, or hours of operation, or both) and the most stringent of (4-	erally
	a.	The applicable standards set forth in 40 CFR part 60 and 61; (4-	5-00)
complia	b. nce date;	Any applicable State Implementation Plan emissions limitation including those with a f or (4-	future 5-00)
future c	c. omplianc	The emissions rate specified as a federally enforceable permit condition, including those we date. (4-	vith a 5-00)
access.	<i>99</i> <u>10</u> .	Ambient Air . That portion of the atmosphere, external to buildings, to which the general public (5-	ic has 1-94)
exceeda	1<u>0</u>1. nce of a	Ambient Air Quality Violation. Any ambient concentration that causes or contributes national ambient air quality standard as determined by 40 CFR Part 50. (4-1)	to an 1-06)

123. Attainment Area. Any area which is designated, pursuant to 42 U.S.C. Section 7407(d), as having ambient concentrations equal to or less than national primary or secondary ambient air quality standards for a particular air pollutant or air pollutants. (4-11-06)

pollutant impacts have been observed and/or meteorological conditions are conducive to additional air pollutant

14. BART-Eligible Source. Any of the following stationary sources of air pollutants, including any

Atmospheric Stagnation Advisory. An air pollution alert declared by the Department when air

buildup.

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and has	the pote	rce, which was not in operation prior to August 7, 1962, and was in existence on August 7 ntial to emit two hundred fifty (250) tons per year or more of any air pollutant. In deter fugitive emissions, to the extent quantifiable, must be counted.	1977, mining ()
heat inp	<u>a.</u> ut;	Fossil-fuel fired steam electric plants of more than two hundred fifty (250) million BTU's p	er hour
	<u>b.</u>	Coal cleaning plants (thermal dryers):	()
	<u>c.</u>	Kraft pulp mills:	()
	<u>d.</u>	Portland cement plants;	()
	<u>e.</u>	Primary zinc smelters;	()
	<u>f.</u>	Iron and steel mill plants;	()
	<u>g.</u>	Primary aluminum ore reduction plants:	()
	<u>h.</u>	Primary copper smelters:	()
day;	<u>i.</u>	Municipal incinerators capable of charging more than two hundred fifty (250) tons of refu	use per
	<u>j.</u>	Hydrofluoric, sulfuric, and nitric acid plants;	()
	<u>k.</u>	Petroleum refineries;	()
	<u>l.</u>	Lime plants:	()
	<u>m.</u>	Phosphate rock processing plants;	()
	<u>n.</u>	Coke oven batteries:	()
	<u>o.</u>	Sulfur recovery plants:	()
	<u>p.</u>	Carbon black plants (furnace process);	()
	<u>q.</u>	Primary lead smelters:	()
	<u>r.</u>	Fuel conversion plants;	()
	<u>s.</u>	Sintering plants;	()
	<u>t.</u>	Secondary metal production facilities:	()
	<u>u.</u>	Chemical process plants;	()
	<u>v.</u>	Fossil-fuel boilers of more than two hundred fifty (250) million BTU's per hour heat input;	()
(300,000	<u>w.</u> 0) barrels	Petroleum storage and transfer facilities with a capacity exceeding three hundred the	ousand
	<u>X.</u>	Taconite ore processing facilities:	<u> </u>
	<u>y.</u>	Glass fiber processing plants; and	()

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(5-1-94)

- Z. Charcoal production facilities.
- 135. Baseline (Area, Concentration, Date). See Section 579.
- 16. Best Available Retrofit Technology (BART). Means an emission limitation based on the degree of reduction achievable through the application of the best system of continuous emission reduction for each pollutant which is emitted by an existing stationary facility. The emission limitation must be established, on a case-by-case basis, taking into consideration the technology available, the costs of compliance, the energy and non-air quality environmental impacts of compliance, any pollution control equipment in use or in existence at the source, the remaining useful life of the source, and the degree of improvement in visibility which may reasonably be anticipated to result from the use of such technology.
 - **147. Board**. Idaho Board of Environmental Quality. (5-1-94)
- **158. Breakdown**. An unplanned failure of any equipment or emissions unit which may cause excess emissions. (4-5-00)
 - **162. BTU**. British thermal unit. (5-1-94)
 - 4720. Clean Air Act. The federal Clean Air Act, 42 U.S.C. Sections 7401 through 7671q. (5-1-94)
- **1821. Collection Efficiency**. The overall performance of the air cleaning device in terms of ratio of materials collected to total input to the collector unless specific size fractions of the contaminant are stated or required.

 (5-1-94)
- **1922.** Commence Construction or Modification. In general, this means initiation of physical on-site construction activities on an emissions unit which are of a permanent nature. Such activities include, but are not limited to, installation of building supports and foundations, laying of underground pipework, and construction of permanent storage structures. With respect to a change in method of operation, this term refers to those on-site activities, other than preparatory activities, which mark the initiation of the change. (4-5-00)
- **203. Complete.** A determination made by the Department that all information needed to process a permit application has been submitted for review. (5-1-94)
 - **214. Construction**. Fabrication, erection, installation, or modification of a stationary source or facility. (5-1-94)
- **225. Control Equipment**. Any method, process or equipment which removes, reduces or renders less noxious, air pollutants discharged into the atmosphere. (5-1-94)
- **236. Controlled Emission**. An emission which has been treated by control equipment to remove all or part of an air pollutant before release to the atmosphere. (5-1-94)
- **247. Criteria Air Pollutant**. Any of the following: PM-10; sulfur oxides; ozone, nitrogen dioxide; carbon monoxide; lead. (4-5-00)
- **28. Deciview.** A measurement of visibility impairment. A deciview is a haze index derived from calculated light extinction, such that uniform changes in haziness correspond to uniform incremental changes in perception across the entire range of conditions, from pristine to highly impaired. The deciview haze index is calculated based on the following equation (for the purposes of calculating deciview, the atmospheric light extinction coefficient must be calculated from aerosol measurements): Deciview Haze Index = 10 ln_e (b_{ext}/10Mm⁻¹) where b_{ext} = the atmospheric light extinction coefficient, expressed in inverse megameters (Mm⁻¹).
 - **259. Department.** The Department of Environmental Quality. (5-1-94)
 - **2630. Designated Facility.** Any of the following facilities: (5-1-94)

heat inp	a. out;	Fossil-fuel fired steam electric plants of more than two hundred fifty (250) million BTU's	s per hour (5-1-94)
	b.	Coal cleaning plants (thermal dryers);	(5-1-94)
	c.	Kraft pulp mills;	(5-1-94)
	d.	Portland cement plants;	(5-1-94)
	e.	Primary zinc smelters;	(5-1-94)
	f.	Iron and steel mill plants;	(5-1-94)
	g.	Primary aluminum ore reduction plants;	(5-1-94)
	h.	Primary copper smelters;	(5-1-94)
per day;	i.	Municipal incinerators capable of charging more than two hundred and fifty (250) tons	of refuse (5-1-94)
	j.	Hydrofluoric, sulfuric, and nitric acid plants;	(5-1-94)
	k.	Petroleum refineries;	(5-1-94)
	l.	Lime plants;	(5-1-94)
	m.	Phosphate rock processing plants;	(5-1-94)
	n.	Coke oven batteries;	(5-1-94)
	0.	Sulfur recovery plants;	(5-1-94)
	p.	Carbon black plants (furnace process);	(5-1-94)
	q.	Primary lead smelters;	(5-1-94)
	r.	Fuel conversion plants;	(5-1-94)
	S.	Sintering plants;	(5-1-94)
	t.	Secondary metal production facilities;	(5-1-94)
	u.	Chemical process plants;	(5-1-94)
BTU's p	v. ber hour h	Fossil-fuel boilers (or combination thereof) of more than two hundred and fifty (250 neat input;) million (5-1-94)
(300,000	w. 0) barrels	Petroleum storage and transfer facilities with a capacity exceeding three hundred s;	thousand (5-1-94)
	х.	Taconite ore processing facilities;	(5-1-94)
	y.	Glass fiber processing plants; and	(5-1-94)
	Z.	Charcoal production facilities.	(5-1-94)
	27 31.	Director . The Director of the Department of Environmental Quality or his designee.	(5-1-94)

2832. Effective Dose Equivalent. The sum of the products of absorbed dose and appropriate factors to account for differences in biological effectiveness due to the quality of radiation and its distribution in the body of reference man. The unit of the effective dose equivalent is the rem. It is generally calculated as an annual dose.

(5-1-94)

- **2933. Emission**. Any controlled or uncontrolled release or discharge into the outdoor atmosphere of any air pollutants or combination thereof. Emission also includes any release or discharge of any air pollutant from a stack, vent, or other means into the outdoor atmosphere that originates from an emission unit. (5-1-94)
- **364. Emission Standard.** A permit or regulatory requirement established by the Department or EPA which limits the quantity, rate, or concentration of emissions of air pollutants on a continuous basis, including any requirements which limit the level of opacity, prescribe equipment, set fuel specifications, or prescribe operation or maintenance procedures for a source to assure continuous emission reduction. (4-5-00)
- **345. Emissions Unit**. An identifiable piece of process equipment or other part of a facility which emits or may emit any air pollutant. This definition does not alter or affect the term "unit" for the purposes of 42 U.S.C. Sections 7651 through 7651o. (5-1-94)
 - **326. EPA.** The United States Environmental Protection Agency and its Administrator or designee. (5-1-94)
- **337. Environmental Remediation Source.** A stationary source that functions to remediate or recover any release, spill, leak, discharge or disposal of any petroleum product or petroleum substance, any hazardous waste or hazardous substance from any soil, ground water or surface water, and shall have an operational life no greater than five (5) years from the inception of any operations to the cessation of actual operations. Nothing in this definition shall be construed so as to actually limit remediation projects to five (5) years or less of total operation.
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- **348. Excess Emissions**. Emissions that exceed an applicable emissions standard established for any facility, source or emissions unit by statute, regulation, rule, permit, or order. (4-11-06)
- **359. Existing Stationary Source or Facility.** Any stationary source or facility that exists, is installed, or is under construction on the original effective date of any applicable provision of this chapter. (5-1-94)
- **3640. Facility**. All of the pollutant-emitting activities which belong to the same industrial grouping, are located on one (1) or more contiguous or adjacent properties, and are under the control of the same person (or persons under common control). Pollutant-emitting activities shall be considered as part of the same industrial grouping if they belong to the same Major Group (i.e. which have the same two-digit code) as described in the Standard Industrial Classification Manual. The fugitive emissions shall not be considered in determining whether a permit is required unless required by federal law. (4-11-06)
- 3741. Federal Class I Area. Any federal land that is classified or reclassified "Class I"-pursuant to Section 580.
- **3842. Federal Land Manager**. The Secretary of the *federal* department with authority over *any federal lands in the United States* the Federal Class I Area (or the Secretary's designee). (5-1-94)(_____)
- 43. Federally Enforceable. All limitations and conditions which are enforceable by the Department under the Clean Air Act, including those requirements developed pursuant to 40 CFR Parts 60 and 61 requirements within any applicable State Implementation Plan, and any permit requirements established pursuant to 40 CFR 51.21 or under regulations approved pursuant to 40 CFR Parts 51, 52, or 60.
- **3944. Fire Hazard**. The presence or accumulation of combustible material of such nature and in sufficient quantity that its continued existence constitutes an imminent and substantial danger to life, property, public welfare or adjacent lands. (5-1-94)

- **405. Fuel-Burning Equipment**. Any furnace, boiler, apparatus, stack and all appurtenances thereto, used in the process of burning fuel for the primary purpose of producing heat or power by indirect heat transfer.
 - (5-1-94)

446. Fugitive Dust. Fugitive emissions composed of particulate matter.

- (5-1-94)
- **427. Fugitive Emissions**. Those emissions which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening. (5-1-94)
- **438. Garbage.** Any waste consisting of putrescible animal and vegetable materials resulting from the handling, preparation, cooking and consumption of food including, but not limited to, waste materials from households, markets, storage facilities, handling and sale of produce and other food products. (5-1-94)
- 49. Geographic Enhancement for the Purpose of 40 CFR 51.308. A method, procedure, or process to allow a broad regional strategy, such as an emissions trading program designed to achieve greater reasonable progress than BART for regional haze, to accommodate BART for reasonable attributable impairment.
- **4450. Grain Elevator**. Any plant or installation at which grain is unloaded, handled, cleaned, dried, stored, or loaded. (5-1-94)
- **451. Grain Storage Elevator.** Any grain elevator located at any wheat flour mill, wet corn mill, dry corn mill (human consumption), rice mill, or soybean extraction plant which has a permanent grain storage capacity of thirty five thousand two hundred (35,200) cubic meters (ca. 1 million bushels). (5-1-94)
- 4652. Grain Terminal Elevator. Any grain elevator which has a permanent storage capacity of more than eighty-eight thousand one hundred (88,100) cubic meters (ca. 2.5 million bushels), except those located at animal food manufacturers, pet food manufacturers, cereal manufacturers, breweries, and livestock feedlots. (5-1-94)
- **4753. Hazardous Air Pollutant (HAP)**. Any air pollutant listed pursuant to Section 112(b) of the Clean Air Act. Hazardous Air Pollutants are regulated air pollutants. (4-11-06)
- **4854. Hazardous Waste**. Any waste or combination of wastes of a solid, liquid, semisolid, or contained gaseous form which, because of its quantity, concentration or characteristics (physical, chemical or biological) may: (5-1-94)
- **a.** Cause or significantly contribute to an increase in deaths or an increase in serious, irreversible, or incapacitating reversible illnesses; or (5-1-94)
- **b.** Pose a substantial threat to human health or to the environment if improperly treated, stored, disposed of, or managed. Such wastes include, but are not limited to, materials which are toxic, corrosive, ignitable, or reactive, or materials which may have mutagenic, teratogenic, or carcinogenic properties; provided that such wastes do not include solid or dissolved material in domestic sewage, or solid or dissolved materials in irrigation return flows or industrial discharges which are allowed under a national pollution discharge elimination system permit, or source, special nuclear, or by-product material as defined by 42 U.S.C. Sections 2014(e),(z) or (aa).
 - (5-1-94)
- **4955. Hot-Mix Asphalt Plant**. Those facilities conveying proportioned quantities or batch loading of cold aggregate to a drier, and heating, drying, screening, classifying, measuring and mixing the aggregate and asphalt for the purpose of paving, construction, industrial, residential or commercial use. (5-1-94)
- **506. Incinerator.** Any source consisting of a furnace and all appurtenances thereto designed for the destruction of refuse by burning. "Open Burning" is not considered incineration. For purposes of these rules, the destruction of any combustible liquid or gaseous material by burning in a flare stack shall be considered incineration. (5-1-94)
- **5**#7. **Indian Governing Body**. The governing body of any tribe, band, or group of Indians subject to the jurisdiction of the United States and recognized by the United States as possessing power of self-government.

(5-1-94)

- **58.** Integral Vista. A view perceived from within the mandatory Class I Federal Area of a specific landmark or panorama located outside the boundary of the mandatory Class I Federal Area.
- **529. Kraft Pulping.** Any pulping process which uses, for a cooking liquor, an alkaline sulfide solution containing sodium hydroxide and sodium sulfide. (5-1-94)
- **60.** Least Impaired Days. The average visibility impairment (measured in deciviews) for the twenty percent (20%) of monitored days in a calendar year with the lowest amount of visibility impairment.
- **5361. Lowest Achievable Emission Rate (LAER)**. For any source, the more stringent rate of emissions based on the following: (4-5-00)
- **a.** The most stringent emissions limitation which is contained in any State Implementation Plan for such class or category of facility, unless the owner or operator of the proposed facility demonstrates that such limitations are not achievable; or (4-5-00)
- **b.** The most stringent emissions limitation which is achieved in practice by such class or category of facilities. This limitation, when applied to a modification, means the lowest achievable emissions rate for the new or modified emissions units within the facility. In no event shall the application of the term permit a proposed new or modified facility to emit any pollutant in excess of the amount allowable under an applicable new source standard of performance. (4-5-00)
 - **62.** Mandatory Class I Federal Area. Any area identified in 40 CFR 81.400 through 81.437.
- **5463. Member of the Public.** For purposes of Subsection 006.89103.a.xvi., a person located at any off-site point where there is a residence, school, business or office.

5564. Modification. (4-11-06)

- **a.** Any physical change in, or change in the method of operation of, a stationary source or facility which results in an emission increase as defined in Section 007 or which results in the emission of any regulated air pollutant not previously emitted. (4-11-06)
- **b.** Any physical change in, or change in the method of operation of, a stationary source or facility which results in an increase in the emissions rate of any state only toxic air pollutant, or emissions of any state only toxic air pollutant not previously emitted. (4-11-06)
- **c.** Fugitive emissions shall not be considered in determining whether a permit is required for a modification unless required by federal law. (4-11-06)
- **d.** For purposes of *Subsections 006.55.a. and 006.55.b.* this definition of modification, routine maintenance, repair and replacement shall not be considered physical changes and the following shall not be considered a change in the method of operation:

 (4-11-06)(____)
- i. An increase in the production rate if such increase does not exceed the operating design capacity of the affected stationary source, and if a more restrictive production rate is not specified in a permit; (5-1-94)
- ii. An increase in hours of operation if more restrictive hours of operation are not specified in a permit; and (5-1-94)
- iii. Use of an alternative fuel or raw material if the stationary source is specifically designed to accommodate such fuel or raw material and use of such fuel or raw material is not specifically prohibited in a permit.

 (4-5-00)
 - **565. Monitoring.** Sampling and analysis, in a continuous or noncontinuous sequence, using techniques

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which will adequately measure emission levels and/or ambient air concentrations of air pollutants. (5-1-94)

- 66. Most Impaired Days. The average visibility impairment (measured in deciviews) for the twenty percent (20%) of monitored days in a calendar year with the highest amount of visibility impairment.
- **567. Multiple Chamber Incinerator.** Any article, machine, equipment, contrivance, structure or part of a structure used to dispose of combustible refuse by burning, consisting of three (3) or more refractory lined combustion furnaces in series physically separated by refractory walls, interconnected by gas passage ports or ducts and employing adequate parameters necessary for maximum combustion of the material to be burned. (5-1-94)
- 68. Natural Conditions. Includes naturally occurring phenomena that reduce visibility as measured in terms of light extinction, visual range, contrast, or coloration.

5869. New Stationary Source or Facility.

(5-1-94)

- **a.** Any stationary source or facility, the construction or modification of which is commenced after the original effective date of any applicable provision of this chapter; or (5-1-94)
 - **b.** The restart of a nonoperating facility shall be considered a new stationary source or facility if: (5-1-94)
 - i. The restart involves a modification to the facility; or

(5-1-94)

ii. After the facility has been in a nonoperating status for a period of two (2) years, and the Department receives an application for a Permit to Construct in the area affected by the existing nonoperating facility, the Department will, within five (5) working days of receipt of the application notify the nonoperating facility of receipt of the application for a Permit to Construct. Upon receipt of this Departmental notification, the nonoperating facility will comply with the following restart schedule or be considered a new stationary source or facility when it does restart: Within thirty (30) working days after receipt of the Department's notification of the application for a Permit to Construct, the nonoperating facility shall provide the Department with a schedule detailing the restart of the facility. The restart must begin within sixty (60) days of the date the Department receives the restart schedule.

(5-1-94)

- **5970. Nonattainment Area**. Any area which is designated, pursuant to 42 U.S.C. Section 7407(d), as not meeting (or contributes to ambient air quality in a nearby area that does not meet) the national primary or secondary ambient air quality standard for the pollutant. (5-1-94)
- **6071. Noncondensibles.** Gases and vapors from processes that are not condensed at standard temperature and pressure unless otherwise specified. (5-1-94)
 - **6472. Odor.** The sensation resulting from stimulation of the human sense of smell. (5-1-94)
- **6273. Opacity.** A state which renders material partially or wholly impervious to rays of light and causes obstruction of an observer's view, expressed as percent. (5-1-94)
- **6374. Open Burning**. The burning of any matter in such a manner that the products of combustion resulting from the burning are emitted directly into the ambient air without passing through a stack, duct or chimney. (5-1-94)
- **6475. Operating Permit**. A permit issued by the Director pursuant to Sections 300 through 386 and/or 400 through 461.
- **6576. Particulate Matter.** Any material, except water in uncombined form, that exists as a liquid or a solid at standard conditions. (5-1-94)
- **6677. Particulate Matter Emissions.** All particulate matter emitted to the ambient air as measured by an applicable reference method, or any equivalent or alternative method in accordance with Section 157. (4-5-00)

- **678. Permit to Construct.** A permit issued by the Director pursuant to Sections 200 through 228. (7-1-02)
- **6879. Person**. Any individual, association, corporation, firm, partnership or any federal, state or local governmental entity. (5-1-94)
- **6980. PM-10.** All particulate matter in the ambient air with an aerodynamic diameter less than or equal to a nominal ten (10) micrometers as measured by a reference method based on Appendix J of 40 CFR Part 50 and designated in accordance with 40 CFR Part 53 or by an equivalent method designated in accordance with 40 CFR Part 53. (5-1-94)
- **7081. PM-10 Emissions**. All particulate matter, including condensible particulates, with an aerodynamic diameter less than or equal to a nominal ten (10) micrometers emitted to the ambient air as measured by an applicable reference method, or an equivalent or alternative method in accordance with Section 157. (4-5-00)
- 7482. Potential to Emit/Potential Emissions. The maximum capacity of a facility or stationary source to emit an air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or source to emit an air pollutant, provided the limitation or its effect on emissions is state or federally enforceable, shall be treated as part of its design. Limitations may include, but are not limited to, including air pollution control equipment, and restrictions on hours of operation and restrictions or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is state or federally enforceable. This definition does not alter or affect the term "capacity factor" as defined in 42 U.S.C. Sections 7651 through 76510. Secondary emissions do not count in determining the potential to emit of a facility or stationary source.
- **7283. Portable Equipment**. Equipment which is designed to be dismantled and transported from one (1) job site to another job site. (5-1-94)
 - **7384. PPM** (parts per million). Parts of a gaseous contaminant per million parts of gas by volume. (5-1-94)
- **7485. Prescribed Fire Management Burning**. The controlled application of fire to wildland fuels in either their natural or modified state under such conditions of weather, fuel moisture, soil moisture, etc., as will allow the fire to be confined to a predetermined area and at the same time produce the intensity of heat and rate of spread required to accomplish planned objectives, including:

 (5-1-94)
 - **a.** Fire hazard reduction; (5-1-94)
 - **b.** The control of pests, insects, or diseases; (5-1-94)
 - **c.** The promotion of range forage improvements; (5-1-94)
 - **d.** The perpetuation of natural ecosystems; (5-1-94)
- **e.** The disposal of woody debris resulting from a logging operation, the clearing of rights of way, a land clearing operation, or a driftwood collection system; (5-1-94)
 - **f.** The preparation of planting and seeding sites for forest regeneration; and (5-1-94)
 - g. Other accepted natural resource management purposes. (5-1-94)
- **7586. Primary Ambient Air Quality Standard**. That ambient air quality which, allowing an adequate margin of safety, is requisite to protect the public health. (5-1-94)
- **7687. Process or Process Equipment.** Any equipment, device or contrivance for changing any materials whatever or for storage or handling of any materials, and all appurtenances thereto, including ducts, stack, etc., the

use of which may cause any discharge of an air pollutant into the ambient air but not including that equipment specifically defined as fuel-burning equipment or refuse-burning equipment. (5-1-94)

7788. Process Weight. The total weight of all materials introduced into any source operation which may cause any emissions of particulate matter. Process weight includes solid fuels charged, but does not include liquid and gaseous fuels charged or combustion air. Water which occurs naturally in the feed material shall be considered part of the process weight.

(5-1-94)

789. Process Weight Rate. The rate established as follows:

(5-1-94)

- **a.** For continuous or long-run steady-state source operations, the total process weight for the entire period of continuous operation or for a typical portion thereof, divided by the number of hours of such period or portion thereof;

 (4-5-00)
- **b.** For cyclical or batch source operations, the total process weight for a period that covers a complete cycle of operation or an integral number of cycles, divided by the hours of actual process operation during such a period. Where the nature of any process or operation or the design of any equipment is such as to permit more than one (1) interpretation of this definition, the interpretation that results in the minimum value for allowable emission shall apply. (4-5-00)
- **790. Quantifiable.** The Department must be able to determine the emissions impact of any SIP trading programs requirement(s) or emission limit(s). (4-5-00)
 - **8091. Radionuclide.** A type of atom which spontaneously undergoes radioactive decay. (5-1-94)
- **92.** Reasonably Attributable. Attributable by visual observation or any other technique the state deems appropriate.
- **93.** Regional Haze. Visibility impairment that is caused by the emission of air pollutants from numerous sources located over a wide geographic area. Such sources include, but are not limited to, major and minor stationary sources, mobile sources, and area sources.

8194. Regulated Air Pollutant.

(4-11-06)

- a. For purposes of determining applicability of major source permit to operate requirements, issuing, and modifying permits pursuant to Sections 300 through 397, and in accordance with Title V of the federal Clean Air Act amendments of 1990, 42 U.S.C. Section 7661 et seq., "regulated air pollutant" shall have the same meaning as in Title V of the federal Clean Air Act amendments of 1990, and any applicable federal regulations promulgated pursuant to Title V of the federal Clean Air Act amendments of 1990, 40 CFR Part 70; (4-11-06)
- **b.** For purposes of determining applicability of any other operating permit requirements, issuing, and modifying permits pursuant to Sections 400 through 410, the federal definition of "regulated air pollutant" as defined in Subsection 006.8194.a. shall also apply; (4-11-06)(____)
- c. For purposes of determining applicability of permit to construct requirements, issuing, and modifying permits pursuant to Sections 200 through 228, except Section 214, and in accordance with Part D of Subchapter I of the federal Clean Air Act, 42 U.S.C. Section 7501 et seq., "regulated air pollutant" shall mean those air contaminants that are regulated in non-attainment areas pursuant to Part D of Subchapter I of the federal Clean Air Act and applicable federal regulations promulgated pursuant to Part D of Subchapter I of the federal Clean Air Act, 40 CFR 51.165; and (4-11-06)
- **d.** For purposes of determining applicability of any other major or minor permit to construct requirements, issuing, and modifying permits pursuant to 200 through 228, except Section 214, "regulated air pollutant" shall mean those air contaminants that are regulated in attainment and unclassifiable areas pursuant to Part C of Subchapter I of the federal Clean Air Act, 40 CFR 52.21, and any applicable federal regulations promulgated pursuant to Part C of Subchapter I of the federal Clean Air Act, 42 U.S.C. Section 7470 et seq. (4-11-06)

8295. Replicable. Any SIP procedures for applying emission trading shall be structured so that two (2) independent entities would obtain the same result when determining compliance with the emission trading provisions. (4-5-00)

8396. Responsible Official. One (1) of the following:

(5-1-94)

(5-1-94)

- **a.** For a corporation: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one (1) or more manufacturing, production, or operating facilities applying for or subject to a permit and either:

 (5-1-94)
- i. The facilities employ more than two hundred fifty (250) persons or have gross annual sales or expenditures exceeding twenty-five million dollars (\$25,000,000) (in second quarter 1980 dollars); or (4-5-00)
 - ii. The delegation of authority to such representative is approved in advance by the Department. (5-1-94)
 - **b.** For a partnership or sole proprietorship: a general partner or the proprietor, respectively. (5-1-94)
- **c.** For a municipality, State, Federal, or other public agency: either a principal executive officer or ranking elected official. For the purposes of Section 123, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of EPA). (4-5-00)
 - **d.** For Phase II sources:
- i. The designated representative in so far as actions, standards, requirements, or prohibitions under 42 U.S.C. Sections 7651 through 76510 or the regulations promulgated thereunder are concerned; and (5-1-94)
 - ii. The designated representative for any other purposes under 40 CFR Part 70. (5-1-94)
- **8497. Safety Measure**. Any shutdown (and related startup) or bypass of equipment or processes undertaken to prevent imminent injury or death or severe damage to equipment or property which may cause excess emissions. (4-5-00)
- **8598. Salvage Operation**. Any source consisting of any business, trade or industry engaged in whole or in part in salvaging or reclaiming any product or material, such as, but not limited to, reprocessing of used motor oils, metals, chemicals, shipping containers, or drums, and specifically including automobile graveyards and junkyards.

 (5-1-94)
- **8699. Scheduled Maintenance**. Planned upkeep, repair activities and preventative maintenance on any air pollution control equipment or emissions unit, including process equipment, and including shutdown and startup of such equipment. (3-20-97)
- **87100. Secondary Ambient Air Quality Standard**. That ambient air quality which is requisite to protect the public welfare from any known or anticipated adverse effects associated with the presence of air pollutants in the ambient air. (5-1-94)
- 101. Secondary Emissions. Emissions which would occur as a result of the construction, modification, or operation of a stationary source or facility, but do not come from the stationary source or facility itself. Secondary emissions must be specific, well defined, quantifiable, and affect the same general area as the stationary source, facility, or modification which causes the secondary emissions. Secondary emissions include emissions from any offsite support facility which would not be constructed or increase its emissions except as a result of the construction or operation of the primary stationary source, facility or modification. Secondary emissions do not include any emissions which come directly from a mobile source regulated under 42 U.S.C. Sections 7521 through 7590.

- **88102. Shutdown**. The normal and customary time period required to cease operations of air pollution control equipment or an emissions unit beginning with the initiation of procedures to terminate normal operation and continuing until the termination is completed. (5-1-94)
- **89103. Significant**. In reference to a net emissions increase or the potential of a source to emit any of the following pollutants, a rate of emissions that would equal or exceed any of the following: (4-11-06)

a.	Pollutant and emissions rate:	(4-11-06)
i.	Carbon monoxide, one hundred (100) tons per year;	(5-1-94)
ii.	Nitrogen oxides, forty (40) tons per year;	(5-1-94)

- iii. Sulfur dioxide, forty (40) tons per year; (5-1-94)
- iv. Particulate matter, twenty-five (25) tons per year of particulate matter emissions; fifteen (15) tons per year of PM_{10} emissions; (4-11-06)
 - v. Ozone, forty (40) tons per year of volatile organic compounds; (4-11-06)
 - vi. Lead, six-tenths (0.6) of a ton per year; (5-1-94)
 - vii. Fluorides, three (3) tons per year; (5-1-94)
 - viii. Sulfuric acid mist, seven (7) tons per year; (5-1-94)
 - ix. Hydrogen sulfide (H2S), ten (10) tons per year; (5-1-94)
 - x. Total reduced sulfur (including H2S), ten (10) tons per year; (5-1-94)
 - xi. Reduced sulfur compounds (including H2S), ten (10) tons per year; (5-1-94)
- xii. Municipal waste combustor organics (measured as total tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans), thirty-five ten-millionths (0.0000035) tons per year; (5-1-94)
 - xiii. Municipal waste combustor metals (measured as particulate matter), fifteen (15) tons per year; (5-1-94)
- xiv. Municipal waste combustor acid gases (measured as sulfur dioxide and hydrogen chloride), forty (40) tons per year; (5-1-94)
- xv. Municipal solid waste landfill emissions (measured as nonmethane organic compounds), fifty (50) tons per year; or (4-11-06)
- xvi. Radionuclides, a quantity of emissions, from source categories regulated by 40 CFR Part 61, Subpart H, that have been determined in accordance with 40 CFR Part 61, Appendix D and by Department approved methods, that would cause any member of the public to receive an annual effective dose equivalent of at least one tenth (0.1) mrem per year, if total facility-wide emissions contribute an effective dose equivalent of less than three (3) mrem per year; or any radionuclide emission rate, if total facility-wide radionuclide emissions contribute an effective dose equivalent of greater than or equal to three (3) mrem per year. (5-1-95)
- **b.** In reference to a net emissions increase or the potential of a source or facility to emit a regulated air pollutant not listed in Subsection $006.89\underline{103}$.a. above and not a toxic air pollutant, any emission rate; or (4-11-06)(
- **c.** For a major facility or major modification which would be constructed within ten (10) kilometers of a Class I area, the emissions rate which would increase the ambient concentration of an emitted regulated air

pollutant in the Class I area by one (1) microgram per cubic meter, twenty-four (24) hour average, or more. (4-5-00)

90 104.	Significant	Contribution.	Any	increase	in	ambient	concentrations	which	would	exceed	the
following:										(5-1-	-94)

a.	Sulfur dioxide:		(5-1-94)
a.	Bullul dioxide.	,	(シーエーノサ

- i. One (1.0) microgram per cubic meter, annual average; (5-1-94)
- ii. Five (5) micrograms per cubic meter, twenty-four (24) hour average; (5-1-94)
- iii. Twenty-five (25) micrograms per cubic meter, three (3) hour average; (5-1-94)
- **b.** Nitrogen dioxide, one (1.0) microgram per cubic meter, annual average; (5-1-94)
- c. Carbon monoxide: (5-1-94)
- i. One-half (0.5) milligrams per cubic meter, eight (8) hour average; (5-1-94)
- ii. Two (2) milligrams per cubic meter, one (1) hour average; (5-1-94)
- **d.** PM-10: (5-1-94)
- i. One (1.0) microgram per cubic meter, annual average; (5-1-94)
- ii. Five (5.0) micrograms per cubic meter, twenty-four (24) hour average. (5-1-94)

94105. Small Fire. A fire in which the material to be burned is not more than four (4) feet in diameter nor more than three (3) feet high. (5-1-94)

92106. Smoke. Small gas-borne particles resulting from incomplete combustion, consisting predominantly, but not exclusively, of carbon and other combustible material. (5-1-94)

93107. Smoke Management Plan. A document issued by the Director to implement Sections 606 through 616, Categories of Allowable Burning. (5-1-94)

94108. Smoke Management Program. A program whereby meteorological information, fuel conditions, fire behavior, smoke movement and atmospheric dispersal conditions are used as a basis for scheduling the location, amount and timing of open burning operations so as to minimize the impact of such burning on identified smoke sensitive areas.

(5-1-94)

95109. Source. A stationary source. (5-1-94)

96110. Source Operation. The last operation preceding the emission of air pollutants, when this operation: (5-1-94)

a. Results in the separation of the air pollutants from the process materials or in the conversion of the process materials into air pollutants, as in the case of fuel combustion; and (5-1-94)

b. Is not an air cleaning device. (5-1-94)

97111. Stack. Any point in a source arranged to conduct emissions to the ambient air, including a chimney, flue, conduit, or duct but not including flares. (5-1-94)

98112. Standard Conditions. Except as specified in Subsection 576.02 for ambient air quality standards, a dry gas temperature of twenty degrees Celsius (20C) sixty-eight degrees Fahrenheit (68F) and a gas pressure of seven hundred sixty (760) millimeters of mercury (14.7 pounds per square inch) absolute. (4-5-00)

- **99113. Startup.** The normal and customary time period required to bring air pollution control equipment or an emissions unit, including process equipment, from a nonoperational status into normal operation. (5-1-94)
- 10014. Stationary Source. Any building, structure, facility, emissions unit, or installation which emits or may emit any air pollutant. The fugitive emissions shall not be considered in determining whether a permit is required unless required by federal law. (4-11-06)
 - **1015.** Tier I Source. Any of the following: (5-1-94)
 - a. Any source located at any major facility as defined in Section 008; (4-5-00)
- **b.** Any source, including an area source, subject to a standard, limitation, or other requirement under 42 U.S.C. Section 7411 or 40 CFR Part 60, and required by EPA to obtain a Part 70 permit; (4-11-06)
- **c.** Any source, including an area source, subject to a standard or other requirement under 42 U.S.C. Section 7412, 40 CFR Part 61 or 40 CFR Part 63, and required by EPA to obtain a Part 70 permit, except that a source is not required to obtain a permit solely because it is subject to requirements under 42 U.S.C. Section 7412(r);

(4-11-06)

- **d.** Any Phase II source; and (5-1-94)
- e. Any source in a source category designated by the Department. (5-1-94)
- 10216. Total Suspended Particulates. Particulate matter as measured by the method described in 40 CFR 50 Appendix B. (4-5-00)
- **10317. Toxic Air Pollutant**. An air pollutant that has been determined by the Department to be by its nature, toxic to human or animal life or vegetation and listed in Section 585 or 586. (5-1-94)
- **10418.** Toxic Air Pollutant Carcinogenic Increments. Those ambient air quality increments based on the probability of developing excess cancers over a seventy (70) year lifetime exposure to one (1) microgram per cubic meter (1 ug/m3) of a given carcinogen and expressed in terms of a screening emission level or an acceptable ambient concentration for a carcinogenic toxic air pollutant. They are listed in Section 586. (5-1-94)
- 10519. Toxic Air Pollutant Non-carcinogenic Increments. Those ambient air quality increments based on occupational exposure limits for airborne toxic chemicals expressed in terms of a screening emission level or an acceptable ambient concentration for a non-carcinogenic toxic air pollutant. They are listed in Section 585. (5-1-94)
- **19620. Toxic Substance**. Any air pollutant that is determined by the Department to be by its nature, toxic to human or animal life or vegetation. (5-1-94)
- **10721. Trade Waste**. Any solid, liquid or gaseous material resulting from the construction or demolition of any structure, or the operation of any business, trade or industry including, but not limited to, wood product industry waste such as sawdust, bark, peelings, chips, shavings and cull wood. (5-1-94)
- 10822. **TRS** (**Total Reduced Sulfur**). Hydrogen sulfide, mercaptans, dimethyl sulfide, dimethyl disulfide and any other organic sulfide present. (5-1-94)
- **10923. Unclassifiable Area**. An area which, because of a lack of adequate data, is unable to be classified pursuant to 42 U.S.C. Section 7407(d) as either an attainment or a nonattainment area. (5-1-94)
 - 14024. Uncontrolled Emission. An emission which has not been treated by control equipment. (5-1-94)
- **1#25. Upset**. An unplanned disruption in the normal operations of any equipment or emissions unit which may cause excess emissions. (4-5-00)

DEPARTMENT OF ENVIROMENTAL QUALITY Control of Air Pollution in Idaho

Docket No. 58-0101-0601 Proposed Rulemaking

- 126. Visibility Impairment. Any humanly perceptible change in visibility (light extinction, visual range, contrast, coloration) from that which would have existed under natural conditions.
- 127. <u>Visibility in Any Mandatory Class I Federal Area</u>. Includes any integral vista associated with that area.
- **1428. Wigwam Burner**. Wood waste burning devices commonly called teepee burners, silos, truncated cones, and other such burners commonly used by the wood product industry for the disposal by burning of wood wastes.

 (5-1-94)
- **1#329.** Wood Stove Curtailment Advisory. An air pollution alert issued through local authorities and/or the Department to limit wood stove emissions during air pollution episodes. (5-1-94)

007. DEFINITIONS FOR THE PURPOSES OF SECTIONS 200 THROUGH 228 AND 400 THROUGH 461.

- 01. Adverse Impact on Visibility. Visibility impairment which interferes with the management, protection, preservation, or enjoyment of the visitor's visual experience of the Federal Class I area. This determination must be made on a case-by-case basis taking into account the geographic extent, intensity, duration, frequency, and time of visibility impairments, and how these factors correlate with:

 (4-5-00)
 - a. Times of visitor use of the Federal Class I area; and (4-5-00)
 - **b.** The frequency and timing of natural conditions that reduce visibility.
 - e. This term does not include affects on integral vistas. (4-5-00)
- **021. Agricultural Activities and Services**. For the purposes of Subsection 222.02.f., the usual and customary activities of cultivating the soil, producing crops and raising livestock for use and consumption. Agricultural activities and services do not include manufacturing, bulk storage, handling for resale or the formulation of any agricultural chemical listed in Sections 585 or 586. (5-1-94)
- **032. Baseline Actual Emissions**. The rate of emissions, in tons per year, of a regulated air pollutant as determined by the following provisions: (4-11-06)
- **a.** For any existing electric utility steam generating unit, baseline actual emissions means the average rate, in tons per year, at which the unit actually emitted the regulated air pollutant during any consecutive twenty-four (24) month period selected by the owner or operator within the five (5) year period immediately preceding when the owner or operator begins actual construction of the project. The Director shall allow the use of a different time period upon a determination that it is more representative of normal source operation. (4-11-06)
- i. The average rate shall include fugitive emissions to the extent quantifiable, and emissions associated with startups, shutdowns, and malfunctions. (4-11-06)
- ii. The average rate shall be adjusted downward to exclude any non-compliant emissions that occurred while the source was operating above any emission limitation that was legally enforceable during the consecutive twenty-four (24) month period. (4-11-06)
- iii. For a regulated air pollutant, when a project involves multiple emissions units, only one (1) consecutive twenty-four (24) month period must be used to determine the baseline actual emissions for all the emissions units being changed. A different consecutive twenty-four (24) month period can be used for each regulated air pollutant. (4-11-06)
- iv. The average rate shall not be based on any consecutive twenty-four (24) month period for which there is inadequate information for determining annual emissions, in tons per year, and for adjusting this amount if required by Subsection 007.032.a.ii. (4-11-06)(_____)

- **b.** For an existing emissions unit (other than an electric utility steam generating unit), baseline actual emissions means the average rate, in tons per year, at which the emissions unit actually emitted the regulated air pollutant during any consecutive twenty-four (24) month period selected by the owner or operator within the ten (10) year period immediately preceding either the date the owner or operator begins actual construction of the project, or the date a complete permit application is received by the Director for a permit required under these rules, whichever is earlier, except that the ten (10) year period shall not include any period earlier than November 15, 1990. (4-11-06)
- i. The average rate shall include fugitive emissions to the extent quantifiable, and emissions associated with startups, shutdowns, and malfunctions. (4-11-06)
- ii. The average rate shall be adjusted downward to exclude any non-compliant emissions that occurred while the source was operating above an emission limitation that was legally enforceable during the consecutive twenty-four (24) month period. (4-11-06)
- iii. The average rate shall be adjusted downward to exclude any emission limitation with which the source must currently comply, had such source been required to comply with such limitations during the consecutive twenty-four (24) month period; however, if an emission limitation is part of a standard or other requirement under 40 CFR Part 63, the baseline actual emissions need only be adjusted if the Department has taken credit for such emissions reductions in an attainment demonstration or maintenance plan. (4-11-06)
- iv. For a regulated air pollutant, when a project involves multiple emissions units, only one (1) consecutive twenty-four (24) month period must be used to determine the baseline actual emissions for all the emissions units being changed. A different consecutive twenty-four (24) month period can be used for each regulated air pollutant. (4-11-06)
- v. The average rate shall not be based on any consecutive twenty-four (24) month period for which there is inadequate information for determining annual emissions, in tons per year, and for adjusting this amount if required by Subsections 006.03.b.ii. and 006.03.b.iii. (4-11-06)
- **c.** For a new emissions unit, the baseline actual emissions for purposes of determining the emissions increase that will result from the initial construction and operation of such unit shall equal zero (0); and, thereafter, for all other purposes, shall equal the unit's potential to emit. (4-11-06)
- **d.** For a plantwide applicability limit (PAL) for a stationary source, the baseline actual emissions shall be calculated for existing electric utility steam generating units in accordance with the procedures contained in Subsection 007.032.a, for other existing emissions units in accordance with the procedures contained in Subsection 007.032.b, and for a new emissions unit in accordance with the procedures contained in Subsection 007.032.c.

(4-11-06)(_____

043. Begin Actual Construction. Commence construction.

(4-11-06)

- **054. Emissions Increase**. The amount by which projected actual emissions exceed baseline actual emissions of an emissions unit. (4-11-06)
- **065. Innovative Control Technology**. Any system of air pollution control that has not been adequately demonstrated in practice, but would have a substantial likelihood of achieving greater continuous emissions reduction than any control system in current practice, or of achieving at least comparable reductions at lower cost in terms of energy, economics, or non-air quality environmental effects. (5-1-94)
- 07. Integral Vista. A view perceived from within the mandatory federal Class I area of a specific landmark or panorama located outside the boundary of the mandatory federal Class I area. Integral vistas are identified by the responsible federal land manager in accordance with criteria adopted pursuant to 40 CFR Part 51.304(a).
- 08. Mandatory Federal Class I Area. Any area designated under 42 U.S.C. Section 7472(a) as Class I and never to be redesignated.

- **096. Net Emissions Increase.** For purposes of Sections 204 and 205, a net emissions increase shall be defined by the federal regulations incorporated by reference. For purposes of Section 210, a net emissions increase shall be an emissions increase from a particular modification plus any other increases and decreases in actual emissions at the facility that are creditable and contemporaneous with the particular modification, where: (4-11-06)
- **a.** A creditable increase or decrease in actual emissions is contemporaneous with a particular modification if it occurs between the date five (5) years before the commencement of construction or modification on the particular change and the date that the increase from the particular modification occurs. Any replacement unit that requires shakedown becomes operational only after a reasonable shakedown period, not to exceed one hundred and eighty (180) days;

 (4-5-00)
- **b.** A decrease in actual emissions is creditable only if it satisfies the requirements for emission reduction credits (Section 460) and has approximately the same qualitative significance for public health and welfare as that attributed to the increase from the particular modification, and is federally enforceable at and after the time that construction of the modification commences. (4-5-00)
- **c.** The increase in toxic air pollutant emissions from an already operating or permitted source is not included in the calculation of the net emissions increase for a proposed new source or modification if: (5-1-95)
- i. The already operating or permitted source commenced construction or modification prior to July 1, 1995; or (5-1-95)
- ii. The uncontrolled emission rate from the already operating or permitted source is ten per cent (10%) or less of the applicable screening emissions level listed in Section 585 or 586; or (6-30-95)
- iii. The already operating or permitted source is an environmental remediation source subject to or regulated by the Resource Conservation and Recovery Act (42 U.S.C. Sections 6901-6992k) and "Idaho Rules and Standards for Hazardous Waste," (IDAPA 58.01.05.000 et seq.) or the Comprehensive Environmental Response, Compensation and Liability Act (42 U.S.C. 6901-6992k) or a consent order. (6-30-95)
- **407. Pilot Plant**. A stationary source located at least one quarter (1/4) mile from any sensitive receptor that functions to test processing, mechanical, or pollution control equipment to determine full-scale feasibility and which does not produce products that are offered for sale except in developmental quantities. (5-1-94)

4408. Projected Actual Emissions.

(4-11-06)

- a. The maximum annual rate, in tons per year, at which an existing emissions unit is projected to emit a regulated air pollutant in any one (1) of the five (5) years (twelve (12) month period) following the date the unit resumes regular operation after the project, or in any one (1) of the ten (10) years following that date, if the project involves increasing the emissions unit's design capacity or its potential to emit that regulated air pollutant and full utilization of the unit would result in a significant emissions increase or a significant net emissions increase at an existing major stationary source. (4-11-06)
 - **b.** In determining the projected actual emissions, the owner or operator of the stationary source: (4-11-06)
- i. Shall consider all relevant information including, but not limited to, historical operational data, the company's own representations, the company's expected business activity and the company's highest projections of business activity, the company's filings with state or federal regulatory authorities, and compliance plans under the approved state implementation plan; and (4-11-06)
- ii. Shall include fugitive emissions to the extent quantifiable and emissions associated with startups, shutdowns, and malfunctions; and (4-11-06)
- iii. Shall exclude, in calculating any increase in emissions that results from the particular project, that portion of the unit's emissions following the project that an existing unit could have accommodated during the consecutive twenty-four (24) month period used to establish the baseline actual emissions and that are also unrelated

to the particular project, including any increased utilization due to product demand growth; or (4-11-06)

- iv. In lieu of using the method set out in Subsections 007.11.b.i. through 007.11.b.iii., may elect to use the emissions unit's potential to emit, in tons per year. (4-11-06)
- 1209. Reasonable Further Progress (RFP). Annual incremental reductions in emissions of the applicable air pollutant as identified in the SIP which are sufficient to provide for attainment of the applicable ambient air quality standard by the required date. (4-11-06)
- 13. Secondary Emissions. Emissions which would occur as a result of the construction, modification, or operation of a stationary source or facility, but do not come from the stationary source or facility itself. Secondary emissions must be specific, well defined, quantifiable, and affect the same general area as the stationary source, facility, or modification which causes the secondary emissions. Secondary emissions include emissions from any offsite support facility which would not be constructed or increase its emissions except as a result of the construction or operation of the primary stationary source, facility or modification. Secondary emissions do not include any emissions which come directly from a mobile source regulated under 42 U.S.C. Sections 7521 through 7590.

(4-5-00)

- **140. Sensitive Receptor.** Any residence, building or location occupied or frequented by persons who, due to age, infirmity or other health based criteria, may be more susceptible to the deleterious effects of a toxic air pollutant than the general population including, but not limited to, elementary and secondary schools, day care centers, playgrounds and parks, hospitals, clinics and nursing homes. (5-1-94)
- **151. Short Term Source**. Any new stationary source or modification to an existing source, with an operational life no greater than five (5) years from the inception of any operations to the cessation of actual operations. (5-1-94)
- 1652. Toxic Air Pollutant Reasonably Available Control Technology (T-RACT). An emission standard based on the lowest emission of toxic air pollutants that a particular source is capable of meeting by the application of control technology that is reasonably available, as determined by the Department, considering technological and economic feasibility. If control technology is not feasible, the emission standard may be based on the application of a design, equipment, work practice or operational requirement, or combination thereof. (5-1-94)
- 17. Visibility Impairment. Any humanly perceptible change in visibility (visual range, contrast, coloration) from that which would have existed under natural conditions.

 (4-5-00)

(BREAK IN CONTINUITY OF SECTIONS)

107. INCORPORATIONS BY REFERENCE.

- **01. General**. Unless expressly provided otherwise, any reference in these rules to any document identified in Subsection 107.03 shall constitute the full incorporation into these rules of that document for the purposes of the reference, including any notes and appendices therein. The term "documents" includes codes, standards or rules which have been adopted by an agency of the state or of the United States or by any nationally recognized organization or association. (5-1-94)
- **02. Availability of Referenced Material**. Copies of the documents incorporated by reference into these rules are available at the following locations: (5-1-94)
- **a.** All federal publications: U.S. Government Printing Office, http://www.gpoaccess.gov/index.html; and (3-20-04)
 - **b.** All documents herein incorporated by reference: (7-1-97)

- i. Department of Environmental Quality, 1410 N. Hilton, Boise, Idaho 83706-1255 at (208) 373-0502. (7-1-97)
 - ii. State Law Library, 451 W. State Street, P.O. Box 83720, Boise, Idaho 83720-0051, (208) 334-3316.
- **03. Documents Incorporated by Reference**. The following documents are incorporated by reference into these rules: (5-1-94)
- **a.** Requirements for Preparation, Adoption, and Submittal of Implementation Plans; Appendix W to Part 51--Guideline on Air Quality Models. 40 CFR Parts 51 and 52 revised as of July 1, 2005. (4-11-06)
- **b.** Implementation Plan for the Control of Air Pollution in the State of Idaho (SIP), Department of Environmental Quality, November 1996. (3-19-99)
- **c.** National Primary and Secondary Ambient Air Quality Standards, 40 CFR Part 50, revised as of July 1, 2005. (4-11-06)
- **d.** Requirements for Preparation, Adoption, and Submittal of Implementation Plans, Protection of Visibility, *Identification of Integral Vistas, Subsection a*, 40 CFR *Part* 51.301, 51.304(a), 51.307, and 51.308, revised as of July 1, 2005.
 - **e.** Approval and Promulgation of Implementation Plans, 40 CFR Part 52, revised as of July 1, 2005. (4-11-06)
- **f.** Ambient Air Monitoring Reference and Equivalent Methods, 40 CFR Part 53, revised as of July 1, 2005. (4-11-06)
- g. Ambient Air Quality Surveillance, Quality Assurance Requirements for Prevention of Significant Deterioration (PSD Air Monitoring), 40 CFR Part 58, Appendix B, revised as of July 1, 2005. (4-11-06)
 - h. Standards of Performance for New Stationary Sources, 40 CFR Part 60, revised as of July 1, 2005. (4-11-06)
- i. National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61, revised as of July 1, 2005.
- **j.** National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR Part 63, revised as of July 1, 2005. (4-11-06)
 - **k.** Compliance Assurance Monitoring, 40 CFR Part 64, revised as of July 1, 2005. (4-11-06)
 - **I.** Permits, 40 CFR Part 72, revised as of July 1, 2005. (4-11-06)
 - m. Sulfur Dioxide Allowance System, 40 CFR Part 73, revised as of July 1, 2005. (4-11-06)
 - **n.** Protection of Stratospheric Ozone, 40 CFR Part 82, revised as of July 1, 2005. (4-11-06)
 - o. Clean Air Act, 42 U.S.C. Sections 7401 through 7671g (1997). (3-19-99)
- **p.** Determining Conformity of Federal Actions to State or Federal Implementation Plans: Conformity to State or Federal Implementation Plans of Transportation Plans, Programs and Projects Developed, Funded or Approved Under Title 23 U.S.C. or the Federal Transit Laws, 40 CFR Part 93, Subpart A, Sections 93.100 through 93.129, revised as of July 1, 2005, except that Sections 93.102(c), 93.104(d), 93.104(e)(2), 93.105, 93.109(c)-(f), 93.118(e), 93.119(f)(3), 93.120(a)(2), 93.121(a)(1), and 93.124(b) are expressly omitted from the incorporation by reference. (4-11-06)

q. The final rule for Standards of Performance for New and Existing Stationary Sources: Electric Utility Steam Generating Units, 70 Fed. Reg. 28,606 (May 18, 2005), corrected at 70 Fed. Reg. 51,267, is expressly excluded from any incorporation by reference into these rules. (4-11-06)

(BREAK IN CONTINUITY OF SECTIONS)

204. PERMIT REQUIREMENTS FOR NEW MAJOR FACILITIES OR MAJOR MODIFICATIONS IN NONATTAINMENT AREAS.

New major facilities or major modifications proposed for location in a nonattainment area and which would be major for the nonattainment regulated air pollutant are considered nonattainment new source review (NSR) actions and are subject to the requirements in Section 204. Section 202 contains application requirements and Section 209 contains processing requirements for nonattainment NSR permitting actions. The intent of Section 204 is to incorporate the federal nonattainment NSR rule requirements. (4-6-05)

01. Incorporated Federal Program Requirements. Requirements contained in the following subparts of 40 CFR 51.165, revised as of July 1, 2005, are hereby incorporated by reference. Requirements contained in the following subparts of 40 CFR 52.21, revised as of July 1, 2005, are hereby incorporated by reference. These CFR sections have been codified in the electronic CFR which is available at www.gpoaccess.gov/ecfr.

40 CFR Reference	40 CFR Reference Title
40 CFR 51.165(a)(1)	Definitions
40 CFR 51.165(a)(2)(ii)(A) - (J)	Applicability Provisions
40 CFR 51.165(a)(6)(i) - (v)	Applicability Provisions
40 CFR 51.165(c)	Clean Unit Test for Emission Units that are Subject to LAER
40 CFR 51.165(d)	Clean Unit Provisions for Emission Units that Achieve an Emission Limitation Comparable to LAER
40 CFR 52.21(z)(1) - (3) and (6)	PCP Exclusion Procedural Requirements
40 CFR 52.21(aa)	Actual PALs

(4-11-06)

- **O2.** Additional Requirements. The applicant must demonstrate to the satisfaction of the Department the following: (4-6-05)
- **a.** LAER. Except as otherwise provided in Section 204, the new major facility or major modification would be operated at the lowest achievable emission rate (LAER) for the nonattainment regulated air pollutant, specifically: (4-6-05)
- i. A new major facility would meet the lowest achievable emission rate at each new emissions unit which emits the nonattainment regulated air pollutant; and (4-5-00)
- ii. A major modification would meet the lowest achievable emission rate at each new or modified emissions unit which has a net emissions increase of the nonattainment regulated air pollutant. (4-5-00)
- b. Required offsets. Allowable emissions from the new major facility or major modification are offset by reductions in actual emissions from stationary sources, facilities, and/or mobile sources in the nonattainment area so as to represent reasonable further progress. All offsetting emission reductions must satisfy the requirements for emission reduction credits (Section 460) and provide for a net air quality benefit which satisfies the requirements of Section 208. If the offsets are provided by other stationary sources or facilities, a permit to construct shall not be issued for the new major facility or major modification until the offsetting reductions are made enforceable through

the issuance of operating permits. The new major facility or major modification may not commence operation, and an operating permit for the new major facility or major modification shall not be effective before the date the offsetting reductions are achieved.

(4-5-00)

- **c.** Compliance status. All other sources in the State owned or operated by the applicant, or by any entity controlling, controlled by or under common control with such person, are in compliance with all applicable emission limitations and standards or subject to an enforceable compliance schedule. (5-1-94)
- d. Effect on visibility. The effect on visibility of any federal Class I area, Class I area designated by the Department, or integral vista of a mandatory *federal* Class I <u>Federal</u> aArea, by the new major facility or major modification, is consistent with making reasonable progress toward *remedying existing and preventing future visibility impairment* the national visibility goal referred to in 40 CFR 51.300(a). The Department may take into account the costs of compliance, the time necessary for compliance, the energy and non-air quality environmental impacts of compliance and the useful life of the source. Any integral vista which the Federal Land Manager has not identified at least six (6) months prior to the submittal of a complete application, or which the Department determines was not identified in accordance with the criteria adopted pursuant to 40 CFR *Part* 51.304(a), may be exempted from Section 204 by the Department.
- **Nonmajor Requirements**. If the proposed action meets the requirements of an exemption or exclusion under the provisions of 40 CFR 51.165 or 40 CFR 52.21 incorporated in Section 204, the nonmajor facility or stationary source permitting requirements of Sections 200 through 228 apply, including the exemptions in Sections 220 through 223. (4-6-05)

205. PERMIT REQUIREMENTS FOR NEW MAJOR FACILITIES OR MAJOR MODIFICATIONS IN ATTAINMENT OR UNCLASSIFIABLE AREAS.

The prevention of significant deterioration (PSD) program is a construction permitting program for new major facilities and major modifications to existing major facilities located in areas in attainment or in areas that are unclassifiable for any criteria air pollutant. Section 202 contains application requirements and Section 209 contains processing requirements for PSD permit actions. The intent of Section 205 is to incorporate the federal PSD rule requirements. (4-6-05)

01. Incorporated Federal Program Requirements. Requirements contained in the following subparts of 40 CFR 52.21, revised as of July 1, 2005, are hereby incorporated by reference. These CFR sections have been codified in the electronic CFR which is available at www.gpoaccess.gov/ecfr.

40 CFR Reference	40 CFR Reference Title
40 CFR 52.21(a)(2)	Applicability Procedures
40 CFR 52.21(b)	Definitions
40 CFR 52.21(i)	Review of Major Stationary Sources and Major Modifications - Source Applicability and Exempting
40 CFR 52.21(j)	Control Technology Review
40 CFR 52.21(k)	Source Impact Analysis
40 CFR 52.21(r)	Source Obligation
40 CFR 52.21(v)	Innovative Control Technology
40 CFR 52.21(w)	Permit Rescission
40 CFR 52.21(x)	Clean Unit Test
40 CFR 52.21(y)	Clean Unit Provisions for Emissions Units that Achieve an Emission Limit Comparable to BACT
40 CFR 52.21(z)(1) - (3) and (6)	PCP Exclusion Procedural Requirements

40 CFR Reference	40 CFR Reference Title
40 CFR 52.21(aa)	Actual PALS

(4-11-06)

- Q2. Effect on Visibility. The applicant must demonstrate that the effect on visibility of any federal Class I area, Class I area designated by the Department, or integral vista of a mandatory Class I Federal Area, by the new major facility or major modification, is consistent with making reasonable progress toward the national visibility goal referred to in 40 CFR 51.300(a). The Department may take into account the costs of compliance, the time necessary for compliance, the energy and non-air quality environmental impacts of compliance and the useful life of the source. Any integral vista which the Federal Land Manager has not identified at least six (6) months prior to the submittal of a complete application, or which the Department determines was not identified in accordance with the criteria adopted pursuant to 40 CFR 51.304(a), may be exempted from this requirement by the Department.
- **023. Exception to Incorporation by Reference of 40 CFR 52.21**. Every use of the word Administrator in 40 CFR 52.21 means the Department except for the following: (4-6-05)
- **a.** In 40 CFR 52.21(b)(17), the definition of federally enforceable, Administrator means the EPA Administrator. (4-6-05)
 - **b.** In 40 CFR 52.21(1)(2), air quality models, Administrator means the EPA Administrator. (4-6-05)
- **c.** In 40 CFR 52.21(b)(43), permit program approved by the Administrator, Administrator means the EPA Administrator. (4-6-05)
- **d.** In 40 CFR 52.21(b)(48)(ii)(c), MACT standard that is proposed or promulgated by the Administrator, Administrator means the EPA Administrator. (4-6-05)
- **e.** In 40 CFR 52.21(b)(50)(i), regulated NSR pollutant as defined by Administrator, Administrator means the EPA Administrator. (4-6-05)
- **f.** In 40 CFR 52.21(y)(4)(i), Administrator for BACT, LAER and RACT clearinghouse, Administrator means the EPA Administrator. (4-6-05)
- **034. Nonmajor Requirements**. If the proposed action meets the requirements of an exemption or exclusion under the provisions of 40 CFR 52.21 incorporated in Section 205, the nonmajor facility or stationary source permitting requirements of Sections 200 through 228 apply, including the exemptions in Sections 220 through 223. (4-6-05)

(BREAK IN CONTINUITY OF SECTIONS)

600. RULES FOR CONTROL OF OPEN BURNING.

The purpose of Sections 600 through 617 is to reduce the amount of emissions and minimize the impact of open burning to protect human health and the environment from air pollutants resulting from open burning <u>as well as to reduce the visibility impairment in mandatory Class I Federal Areas in accordance with the regional haze long-term strategy referenced at Section 667.

(3-21-03)(_____)</u>

(BREAK IN CONTINUITY OF SECTIONS)

651. GENERAL RULES.

All reasonable precautions shall be taken to prevent particulate matter from becoming airborne. In determining what is reasonable, consideration will be given to factors such as the proximity of dust emitting operations to human habitations and/or activities, the proximity to mandatory Class I Federal Areas and atmospheric conditions which might affect the movement of particulate matter. Some of the reasonable precautions may include, but are not limited to, the following:

(5-1-94)(_____)

- **01. Use of Water or Chemicals.** Use, where practical, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land. (5-1-94)
- **O2. Application of Dust Suppressants**. Application, where practical, of asphalt, oil, water or suitable chemicals to, or covering of dirt roads, material stockpiles, and other surfaces which can create dust. (5-1-94)
- **03. Use of Control Equipment**. Installation and use, where practical, of hoods, fans and fabric filters or equivalent systems to enclose and vent the handling of dusty materials. Adequate containment methods should be employed during sandblasting or other operations. (5-1-94)
- **04.** Covering of Trucks. Covering, when practical, open bodied trucks transporting materials likely to give rise to airborne dusts. (5-1-94)
 - **95. Paving.** Paving of roadways and their maintenance in a clean condition, where practical. (5-1-94)
- **Removal of Materials**. Prompt removal of earth or other stored material from streets, where practical. (5-1-94)
- 652. -- 67<u>6</u>4. (RESERVED).

665. REGIONAL HAZE RULES.

The purpose of Sections 665 through 668 is to address regional haze visibility impairment in mandatory Class I Federal Areas. The intent of Sections 665 through 668 is to incorporate the federal protection of visibility definitions and regional haze program requirements.

666. REASONABLE PROGRESS GOALS.

The Department will establish reasonable progress goals, expressed in deciviews for each mandatory Class I Federal Area located within Idaho. These goals will provide for reasonable progress toward achieving natural visibility conditions. The reasonable progress goals must provide for an improvement in visibility for the most impaired days over the period of the implementation plan and ensure no degradation in visibility for the least impaired days over the same period. The reasonable progress goals are not directly enforceable, but will be implemented through enforceable strategies in the long-term strategy.

- **91.** Process for Setting Reasonable Progress Goals. In establishing a reasonable progress goal for any mandatory Class I Federal Area within Idaho, the Department shall:
- <u>a.</u> Consider the costs of compliance, the time necessary for compliance, the energy and non-air quality environmental impacts of compliance, and the remaining useful life of any potentially affected sources, and include a demonstration showing how these factors were taken into consideration in selecting the goal.
- Analyze and determine the rate of progress needed to attain natural visibility conditions by the year 2064. To calculate this rate of progress, the Department will compare baseline visibility conditions to natural visibility conditions in the mandatory Class 1 Federal Area and determine the uniform rate of visibility improvement (measured in deciviews) that would need to be maintained during each implementation period in order to attain natural visibility conditions by 2064. In establishing the reasonable progress, the Department will consider the uniform rate of improvement in visibility and the emission reduction measures needed to achieve it for the period covered by the implementation plan.
 - c. Consult with those states which may reasonably be anticipated to cause or contribute to visibility

DEPARTMENT OF ENVIRONMENTAL QUALITY Docket No. 58-0101-0601 Control of Air Pollution in Idaho Proposed Rulemaking impairment in the mandatory Class I Federal Area. Justification for Reasonable Progress Goals. If the Department establishes a reasonable progress goal that provides for a slower rate of improvement in visibility than the rate that would be needed to attain natural conditions by 2064, the Department will demonstrate, based on the factors in Subsection 666.01.a., that the rate of progress for the implementation plan to attain natural conditions by 2064 is not reasonable; and that the progress goal adopted by the Department is reasonable. The Department will provide to the public for review, as part of its implementation plan, an assessment of the number of years it would take to attain natural conditions if visibility improvement continues at the rate of progress selected by the Department as reasonable. LONG-TERM STRATEGY FOR REGIONAL HAZE. <u>667.</u> The purpose of Section 667 is to develop a long-term strategy for making reasonable progress toward the national goal of preventing any future and remedying any existing impairment of visibility in mandatory Class I Federal Areas in which impairment results from man-made air pollution. Submittal of Long-Term Strategy. The Department will submit a long-term strategy that addresses regional haze visibility impairment for each mandatory Class I Federal Area within the state and for each mandatory Class I Federal Area located outside the state which may be affected by emissions from the state. (Enforceable Emission Limitations. The long-term strategy must include enforceable emissions limitations, compliance schedules, and other measures as necessary to achieve the reasonable progress goals established by the Department. Requirements for Long-Term Strategy. In establishing long-term strategy for regional haze, the Department will meet the following requirements: The Department will document the technical basis, including modeling, monitoring and emissions information, on which the state is relying to determine its apportionment of emission reduction obligations necessary for achieving reasonable progress in each mandatory Class I Federal Area it affects. The Department may meet this requirement by relying on technical analyses developed by the regional planning organization and approved by all state participants. The Department will identify the baseline emission inventory on which its strategies are based. The baseline emissions inventory year is presumed to be the most recent year of the consolidated periodic emissions inventory. The Department will identify all anthropogenic sources of visibility impairment considered by the Department in developing its long-term strategy. The Department should consider major and minor stationary sources, mobile sources, and area sources. The Department will consider, at a minimum, the following factors in developing its long-term strategy: Emission reductions due to ongoing air pollution control programs, including measures to address reasonably attributable visibility impairment; Measures to mitigate the impacts of construction activities; <u>ii.</u> Emissions limitations and schedules for compliance to achieve the reasonable progress goal; iii. <u>iv.</u> Source retirement replacement schedules: Smoke management techniques for agricultural and forestry management purposes including plans as currently exist with the state for these purposes; Enforceability of emissions limitations and control measures; and <u>vi.</u> vii. The anticipated net effect on visibility due to projected changes in point, area, and mobile source

	T OF ENVIROMENTAL QUALITY Pollution in Idaho	Docket No. 58-0101-0601 Proposed Rulemaking
emissions over t	he period addressed by the long-term strategy.	()
04. long-term strates	<u>Interstate Consultation</u> . The Department will undertake the for where interstate consultation is required.	ollowing process in developing the
	Where Idaho has emissions that are reasonably anticipated to co Class I Federal Area located in another state or states, the Depa to develop coordinated emission management strategies.	ntribute to visibility impairment in rtment will consult with the other
b. to contribute to	The Department will consult with any other state having emissi- visibility impairment in any mandatory Class I Federal Area within	
its share of the e in a regional pla	Where other states cause or contribute to impairment in a mand the demonstrate that the state has included in its implementation plantsion reductions needed to meet the progress goal for the area. I make the Department must ensure the state has included from the emission reduction obligations agreed upon through that process	an all measures necessary to obtain f the state of Idaho has participated all measures needed to achieve its
The purpose of S	REQUIREMENT FOR REGIONAL HAZE. Section 668 is to implement the BART requirements in 40 CFR 51. s required for each BART-eligible source:	308(e). The following analysis and
<u>01.</u> the state.	BART-Eligible Sources. The Department shall identify a list o	f all BART-eligible sources within ()
<u>02.</u> eligible source is any impairment	BART Determination . The Department shall complete a determine the state that emits any air pollutant which may reasonably be a of visibility in any mandatory Class 1 Federal Area. All such sour	nticipated to cause or contribute to
<u>a.</u> I Federal Area is	A single source that is responsible for a one (1.0) deciview chan considered to "cause" visibility impairment.	ge or more in any mandatory Class
<u>b.</u> Class I Federal A	A single source that is responsible for a one-half (0.5) deciview Area is considered to "contribute" to visibility impairment.	change or more in any mandatory
	The determination of BART must be based on an analysis technology available and associated emission reductions achieva BART within the state. In this analysis, the following must be tak	ble for each BART-eligible source
<u>i.</u>	Costs of compliance;	()
<u>ii.</u>	Energy and non-air quality environmental impacts of compliance	e: ()
<u></u> <u>iii.</u>	Any pollution control equipment in use at the source:	()
<u>iv.</u>	The remaining useful life of the source; and	()
v. of such technolo	The degree of improvement in visibility which may reasonably be	be anticipated to result from the use
<u>d.</u>	The Department may determine that a BART determination is no	ot required: ()
<u>i.</u> emit less than fo	For sulfur dioxide (SO_2) or for nitrogen oxides (NO_x) if a BART rty (40) tons per year of such pollutant(s); or	e-eligible source has the potential to
<u>ii.</u>	For PM10 if a BART-eligible source emits less than fifteen (15)	tons per year of such pollutant.

<u>03.</u> <u>Alternative to Infeasible Emission Standards</u> . If the Department determines in establishing
BART that technological or economic limitations on the applicability of measurement methodology to a particular
source would make the imposition of an emission standard infeasible, it may instead prescribe a design, equipment,
work practice, or other operational standard, or combination thereof, to require the application of BART. Such
standard, to the degree possible, is to set forth the emission reduction to be achieved by implementation of such
design, equipment, work practice, or operation and must provide for compliance by means which achieve equivalent
results. ()
<u>04.</u> <u>BART Installation and Operation Due Date.</u> Each source subject to BART is required to install
and operate BART as expeditiously as practicable, but in no event later than five (5) years after approval of the
implementation plan. ()
<u>Maintenance of BART Equipment</u> . Each source subject to BART is required to maintain the
control equipment required by the Department and establish procedures to ensure such equipment is properly
operated and maintained. ()
BART Alternative. As an alternative to the installation of BART for a source or sources, the
Department may approve a BART alternative. If the Department approves source grouping as a BART alternative,
only sources (including BART-eligible and non-BART eligible sources) causing or contributing to visibility
impairment to the same mandatory Class I Federal Area may be grouped together.
a. If a source(s) proposes a BART alternative, the resultant emissions reduction and visibility impacts
must be compared with those that would result from the BART options evaluated for the source(s).
I G () DIPT I I I I I I I I I I I I I I I I I I
<u>b.</u> Source(s) proposing a BART alternative must demonstrate that this BART alternative will achieve
greater reasonable progress than would be achieved through the installation and operation of BART. ()
c. Source(s) proposing a BART alternative shall include in the BART analysis an analysis and
justification of the averaging period and method of evaluating compliance with the proposed emission limitation.
()
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07. Reasonable Progress Goal Requirements for BART-Eligible Sources. Once the Department has
met the requirements for BART or BART alternative, as identified in Subsection 668.06, BART-eligible sources will
be subject to the requirements of reasonable progress goals, as defined in 40 CFR 51.308(d), in the same manner as
other sources. ()

<u>669. -- 674.</u>

(RESERVED).

IDAPA 58 - DEPARTMENT OF ENVIRONMENTAL QUALITY

58.01.05 - RULES AND STANDARDS FOR HAZARDOUS WASTE

DOCKET NO. 58-0105-0602

NOTICE OF RULEMAKING - PROPOSED RULE

AUTHORITY: In compliance with Section 67-5221(1), Idaho Code, notice is hereby given that this agency has proposed rulemaking. The action is authorized by Chapters 44 and 58, Title 39, Idaho Code. In addition, 40 CFR 271.21(e) and Section 39-4404, Idaho Code, require DEQ to adopt amendments to federal law as proposed under this docket.

PUBLIC HEARING SCHEDULE: No hearings have been scheduled. Pursuant to Section 67-5222(2), Idaho Code, a public hearing will be held if requested in writing by twenty-five (25) persons, a political subdivision, or an agency. Written requests for a hearing must be received by the undersigned on or before August 16, 2006. If no such written request is received, a public hearing will not be held.

DESCRIPTIVE SUMMARY: Idaho's Rules and Standards for Hazardous Waste are updated annually to maintain consistency with the U.S. Environmental Protection Agency's federal regulations implementing the Resource Conservation and Recovery Act (RCRA) as directed by the Idaho Hazardous Waste Management Act (HWMA). Idaho has historically adopted both required and optional federal regulations so that Idaho's hazardous waste rules are the same as federal requirements. Optional federal regulations usually allow more flexibility to the regulated community; required federal regulations are necessary to maintain program primacy. Adoption by reference allows the Department of Environmental Quality (DEQ) to keep its rules up to date with federal regulation changes and minimizes the EPA Region 10 effort needed to keep Idaho's authorization current. Adoption by reference also simplifies compliance for the regulated community. This proposed rule updates citations to the federal regulations incorporated by reference to include those revised as of July 1, 2006.

The proposed rule text is in legislative format. Language the agency proposes to add is underlined. Language the agency proposes to delete is struck out. It is these additions and deletions to which public comment should be addressed.

After consideration of public comments, DEQ intends to present the final proposal to the Board of Environmental Quality in October 2006 for adoption of a pending rule. The rule is expected to be final and effective upon the conclusion of the 2007 legislative session if approved by the Legislature.

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year: N/A

IDAHO CODE SECTION 39-107D STATEMENT: This proposed rule does not regulate an activity not regulated by the federal government, nor is it broader in scope or more stringent than federal regulations.

NEGOTIATED RULEMAKING: Due to the nature of this rulemaking, negotiations were not held.

GENERAL INFORMATION: For more information about DEQ's programs and activities, visit DEQ's web site at www.deq.idaho.gov.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS: For assistance on questions concerning the proposed rulemaking, contact John Brueck, john.brueck@deq.idaho.gov, (208)373-0458.

Anyone can submit written comments by mail, fax or e-mail at the address below regarding this proposed rule. The Department will consider all written comments received by the undersigned on or before August 30, 2006.

Dated this 30th day of June, 2006.

DEPARTMENT OF ENVIRONMENTAL QUALITY Rules & Standards for Hazardous Waste

Docket No. 58-0105-0502 Proposed Rulemaking

Paula J. Wilson Hearing Coordinator Department of Environmental Quality 1410 N. Hilton/Boise, Idaho 83706-1255 (208)373-0418/Fax No. (208)373-0481 paula.wilson@deq.idaho.gov

THE FOLLOWING IS THE TEXT OF DOCKET NO. 58-0105-0502

002. INCORPORATION BY REFERENCE OF FEDERAL REGULATIONS.

Any reference in these rules to requirements, procedures, or specific forms contained in the Code of Federal Regulations (CFR), Title 40, Parts 124, 260-266, 268, 270, 273, and 279 shall constitute the full adoption by reference of that part and Subparts as they appear in 40 CFR, revised as of July 1, 20056, including any notes and appendices therein, unless expressly provided otherwise in these rules.

- **01.** Exceptions. Nothing in 40 CFR Parts 260 266, 268, 270, 273, 279 or Part 124 as pertains to permits for Underground Injection Control (U.I.C.) under the Safe Drinking Water Act, the Dredge or Fill Program under Section 404 of the Clean Water Act, the National Pollution Discharge Elimination System (NPDES) under the Clean Water Act or Prevention of Significant Deterioration Program (PSD) under the Clean Air Act is adopted or included by reference herein.
- **02. Availability of Referenced Material**. The federal regulations adopted by reference throughout these rules are maintained at the following locations: (7-2-97)
 - **a.** U.S. Government Printing Office, http://www.gpoaccess.gov/index.html; and (3-20-04)
- **b.** State Law Library, 451 W. State Street, P.O. Box 83720, Boise, ID 83720-0051, (208)334-3316; and (7-2-97)
 - c. Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255, (208)373-0502.

(BREAK IN CONTINUITY OF SECTIONS)

004. HAZARDOUS WASTE MANAGEMENT SYSTEM.

40 CFR Part 260 and all Subparts, except 40 CFR 260.2, are herein incorporated by reference as provided in 40 CFR, revised as of July 1, 20056. For purposes of 40 CFR 260.10, in the definition of hazardous waste constituent, "Administrator" shall be defined as the U.S. Environmental Protection Agency Administrator. For purposes of 40 CFR 260.20, "Federal Register" shall be defined as the Idaho Administrative Bulletin.

005. IDENTIFICATION AND LISTING OF HAZARDOUS WASTE.

40 CFR Part 261 and all Subparts, except the language "in the Region where the sample is collected" in 40 CFR 261.4(e)(3)(iii), except remanded waste codes "K064, K065, K066, K090 and K091" listed in 40 CFR Part 261 Appendix VII, except "49 CFR 173.300" in 40 CFR 261.21(a)(3) as replaced with "49 CFR 173.115 or equivalent test methods in Chapter 7 of SW-846," except "49 CFR 173.151" in 40 CFR 261.21(a)(4) as replaced with "49 CFR 173.127" and except 40 CFR 261.23(a)(8), are herein incorporated by reference as provided in 40 CFR, revised as of July 1, 20056. For purposes of 40 CFR 261.10 and 40 CFR 261.11, "Administrator" shall be defined as the U.S. Environmental Protection Agency Administrator. For purposes of 40 CFR 261 Appendix IX, "EPA" shall be defined as the U.S. Environmental Protection Agency.

- **01. Excluded Wastes.** Chemically Stabilized Electric Arc Furnace Dust (CSEAFD) generated by Envirosafe Services of Idaho, Inc. (ESII) at ESII's facility in Grand View, Idaho using the Super Detox(R) treatment process as modified by ESII and that is disposed of in a Subtitle D or Subtitle C landfill is excluded from the lists of hazardous waste provided ESII implements a program that meets the following conditions: (3-16-96)
- **a.** Verification Testing Requirements. Sample Collection and analyses, including quality control procedures, conducted pursuant to Subsections 005.01.b. and 005.01.c., must be performed according to SW-846 methodologies and the RCRA Part B permit, including future revisions. (3-16-96)
 - **b.** Initial Verification Testing.

(3-16-96)

- i. For purposes of Subsections 005.01.b., "new source" shall mean any generator of Electric Arc Furnace Dust (EAFD), EPA and Idaho Department of Environmental Quality Hazardous Waste No. KO61, whose waste has not previously been processed by ESII using the Super Detox(R) treatment process resulting in processed EAFD which has been subjected to initial verification testing and has demonstrated compliance with the delisting levels specified in Subsection 005.01.d. (3-16-96)
- ii. Prior to the initial treatment of any new source of EAFD, ESII must notify the Department in writing. The written notification shall include: (3-16-96)
 - (1) The waste profile information; and

(3-16-96)

(2) The name and address of the generator.

(3-16-96)

- iii. The first four (4) consecutive batches treated must be sampled in accordance with Subsection 005.01.a. Each of the four (4) samples shall be analyzed to determine if the CSEAFD generated meets the delisting levels specified in Subsection 005.01.d. (3-16-96)
- iv. If the initial verification testing demonstrates that the CSEAFD samples meet the delisting levels specified in Subsection 005.01.d., ESII shall submit the operational and analytical test data, including quality control information, to the Department, in accordance with Subsection 005.01.f. Subsequent to such data submittal, the CSEAFD generated from EAFD originating from the new source shall be considered delisted. (3-16-96)
- v. CSEAFD generated by ESII from EAFD originating from a new source shall be managed as hazardous waste in accordance with Subtitle C of RCRA until: (3-16-96)
- (1) Initial verification testing demonstrates that the CSEAFD meets the delisting levels specified in Subsection 005.01.d.; and (3-16-96)
- (2) The operational and analytical test data is submitted to the Department pursuant to Subsection 005.01.b.iv. (3-16-96)
- vi. For purposes of Subsections 005.01.b. and 005.01.c., "batch" shall mean the CSEAFD which results from a single treatment episode in a full scale mixing vessel. (3-16-96)
 - **c.** Subsequent Verification Testing.

(3-16-96)

- i. Subsequent to initial verification testing, ESII shall collect a representative sample, in accordance with Subsection 005.01.a., from each batch of CSEAFD generated by ESII. ESII may, at its discretion, conduct subsequent verification testing on composite samples. In no event shall a composite sample consist of representative samples from more than twenty (20) batches of CSEAFD. (3-16-96)
- ii. The samples shall be analyzed prior to disposal of each batch of CSEAFD to determine if the CSEAFD meets the delisting levels specified in Subsection 005.01.d. (3-16-96)
- iii. Each batch of CSEAFD generated by ESII shall be subjected to subsequent verification testing no later than thirty (30) days after it is generated by ESII. (3-16-96)

- iv. If the levels of constituents measured in a sample, or composite sample, of CSEAFD do not exceed the levels set forth in Subsection 005.01.d., then any batch of CSEAFD which contributed to the sample that does not exceed the levels set forth in Subsection 005.01.d. is non-hazardous and may be managed and/or disposed of in a Subtitle D or Subtitle C landfill. (3-16-96)
- v. If the constituent levels in a sample, or composite sample, exceed any of the delisting levels set forth in Subsection 005.01.d., then ESII must submit written notification of the results of the analysis to the Department within fifteen (15) days from receiving the final analytical results, and any CSEAFD which contributed to the sample must be:

 (3-16-96)
 - (1) Retested, and retreated if necessary, until it meets the levels set forth in Subsection 005.01.d.; or (3-16-96)
 - (2) Managed and disposed of in accordance with Subtitle C of RCRA. (3-16-96)
- vi. Each batch of CSEAFD shall be managed as hazardous waste in accordance with Subtitle C of RCRA until subsequent verification testing demonstrates that the CSEAFD meets the delisting levels specified in Subsection 005.01.d. (3-16-96)
 - **d.** Delisting Levels. (3-16-96)
 - i. All leachable concentrations for these metals must not exceed the following levels (mg/l):

antimony	0.06
arsenic	0.50
barium	7.60
beryllium	0.010
cadmium	0.050
chromium	0.33
lead	0.15
mercury	0.009
nickel	1
selenium	0.16
silver	0.30
thallium	0.020
vanadium	2
zinc	70

(3-16-96)

- ii. Metal concentrations must be measured in the waste leachate by the method specified in 40 CFR Part 261.24. (3-16-96)
 - **e.** Modification of Treatment Process.

(3-16-96)

i. If ESII makes a decision to modify the Super Detox(R) treatment process from the description of the process as set forth in ESII's Petition for Delisting Treated K061 Dust by the Super Detox(R) Process submitted to the Department on July 14, 1995, ESII shall notify the Department in writing prior to implementing the

modification. (3-16-96)

- ii. After ESII's receipt of written approval from the Department, and subject to any conditions included with the approval, ESII may implement the proposed modification. (3-16-96)
- iii. If ESII modifies its treatment process without first receiving written approval from the Department, this exclusion of waste will be void from the time the process was modified.

(3-16-96)

- iv. ESII's Petition for Delisting Treated K061 Dust by the Super Detox(R) Process submitted to the Department on July 14, 1995 is available at the Department of Environmental Quality, Permits and Enforcement, 1410 N. Hilton, Boise, Idaho 83706. (3-16-96)
 - **f.** Records and Data Retention and Submittal.

(3-16-96)

- i. Records of disposal site, operating conditions and analytical data from verification testing must be compiled, summarized, and maintained at ESII's Grand View facility for a minimum of five (5) years from the date the records or data are generated. (3-16-96)
- ii. The records and data maintained by ESII must be furnished upon request to the Department or EPA. (3-16-96)
- iii. Failure to submit requested records or data within ten (10) business days of receipt of a written request or failure to maintain the required records and data on site for the specified time, will be considered by the Department, at its discretion, sufficient basis to revoke the exclusion to the extent directed by the Department.

(3-16-96)

- iv. All records or data submitted to the Department must be accompanied by a signed copy of the following certification statement to attest to the truth and accuracy of the records or data submitted: "Under civil and/ or criminal penalty of law for the making or submission of false or fraudulent statements or representations, I certify that the information contained in or accompanying this document is true, accurate, and complete. As to any identified sections of this document for which I cannot personally verify the truth and accuracy, I certify as the ESII official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete. In the event that any of this information is determined by the Department in its sole discretion to be false, inaccurate, or incomplete, and upon conveyance of this fact to ESII, I recognize and agree that this exclusion of waste will be void as if it never had effect or to the extent directed by the Department and that ESII will be liable for any actions taken in contravention of ESII's RCRA and CERCLA obligations premised upon ESII's reliance on the void exclusion."
- g. Facility Merger and Name Change. On May 4, 2001, the Department was notified of a stock transfer that resulted in ESII's facility merging with American Ecology. This created a name change from Envirosafe Services of Idaho, Inc. (ESII) to US Ecology Idaho, Inc. effective May 1, 2001. All references to Envirosafe Services of Idaho, Inc. or ESII now refer to US Ecology Idaho, Inc. (3-15-02)

006. STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE.

- **01. Incorporation by Reference**. 40 CFR Part 262 and all Subparts, except for the language "for the Region in which the generator is located" in 40 CFR 262.42(a)(2) and 40 CFR 262.42(b), are herein incorporated by reference as provided in 40 CFR, revised as of July 1, 20056. For purposes of 40 CFR 262.55, 262.56, and 262.57(b), "Administrator" shall be defined as the U.S. Environmental Protection Agency Region 10 Regional Administrator. Copies of advance notification, annual reports, and exception reports, required under those sections, shall also be provided to the Director. For purposes of 40 CFR 262.51, 262.53, 262.54(g)(1), and 262.85(g), EPA shall be defined as the U.S. Environmental Protection Agency. For purposes of 40 CFR Part 262 Subparts E, F, H, and 40 CFR 262.41(a)(4), "United States or U.S." shall be defined as the United States.
- **02. Generator Emergency Notification.** In addition to the emergency notification required by 40 CFR 265.56(d)(2), 262.34(d)(5)(iv)(C), (see 40 CFR 262.34(a)(4)), 263.30(c)(1), and 264.56(d)(2), the emergency

coordinator must also immediately notify the State Communications Center by telephone, 1-800-632-8000, to file an identical report. (3-15-02)

007. STANDARDS APPLICABLE TO TRANSPORTERS OF HAZARDOUS WASTE.

40 CFR Part 263 and all Subparts are herein incorporated by reference as provided in 40 CFR, revised as of July 1, 20056. For purposes of 40 CFR 263.20(g), 263.20(g)(1), 263.20(g)(4), 263.21(a)(4), and 263.22(d), "United States" shall be defined as the United States.

008. STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

40 CFR Part 264 and all Subparts (excluding 40 CFR 264.1(f), 264.149, 264.150, 264.301(l), 264.1030(d), 264.1050(g), 264.1080(e), 264.1080(f) and 264.1080(g)) are herein incorporated by reference as provided in 40 CFR, revised as of July 1, 20056. For purposes of 40 CFR Subsection 264.12(a), "Regional Administrator" shall be defined as the U.S. Environmental Protection Agency Region 10 Regional Administrator. For purposes of 40 CFR 264.1082(c)(4)(ii), "EPA" shall be defined as the U.S. Environmental Protection Agency.

009. INTERIM STATUS STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

40 CFR Part 265, and all Subparts (excluding Subpart R, 40 CFR 265.1(c)(4), 265.149, 265.150, 265.1030(c), 265.1050(f), 265.1080(e), 265.1080(f), and 265.1080(g)) and except the language contained in 40 CFR 265.340(b)(2) as replaced with, "The following requirements continue to apply even when the owner or operator has demonstrated compliance with the MACT requirements of part 63, subpart EEE of this chapter: 40 CFR 265.351 (closure) and the applicable requirements of Subparts A through H, BB and CC of this part.", are herein incorporated by reference as provided in 40 CFR, revised as of July 1, 20056. For purposes of 40 CFR Subsection 265.12(a), "Regional Administrator" shall be defined as the U.S. Environmental Protection Agency Region 10 Regional Administrator. For purposes of 40 CFR 265.1083(c)(4)(ii), "EPA" shall be defined as the U.S. Environmental Protection Agency.

(4-11-06)()

010. STANDARDS FOR THE MANAGEMENT OF SPECIFIC HAZARDOUS WASTES AND SPECIFIC TYPES OF HAZARDOUS WASTE FACILITIES.

40 CFR Part 266 and all Subparts are herein incorporated by reference as provided in 40 CFR, revised as of July 1, $\frac{(4-11-06)}{(4-11-06)}$

011. LAND DISPOSAL RESTRICTIONS.

40 CFR Part 268 and all Subparts are herein incorporated by reference as provided in 40 CFR, revised as of July 1, 20056, except for 40 CFR 268.1(e)(3), 268.5, 268.6, 268.13, 268.42(b), and 268.44(a) through (g). The authority for implementing the provisions of these excluded sections remains with the EPA. However, the requirements of Sections 39-4403(17) and 39-4423, Idaho Code, shall be applied in all cases where these requirements are more stringent than the federal standards. If the Administrator of the EPA grants a case-by-case variance pursuant to 40 CFR 268.5, that variance will simultaneously create the same case-by-case variance to the equivalent requirement of these rules. For purposes of 40 CFR 268.(2)(j) "EPA" shall be defined as the U.S. Environmental Protection Agency. For purposes of 40 CFR 268.40(b), "Administrator" shall be defined as U.S. Environmental Protection Agency Administrator. In 40 CFR 268.7(a)(9)(iii), "D009" is excluded, (from lab packs as noted in 40 CFR Part 268 Appendix IV.) In 40 CFR 268.48(a), the entry for "2,4,6-Tribromophenol" is excluded.

012. HAZARDOUS WASTE PERMIT PROGRAM.

40 CFR Part 270 and all Subparts, except 40 CFR 270.12(a) and 40 CFR 270.14(b)(18), are herein incorporated by reference as provided in 40 CFR, revised as of July 1, 20056. For purposes of 40 CFR 270.2, 270.5, 270.10(e)(2), 270.10(e)(3), 270.10(f)(2), 270.10(g), 270.10(g), 270.11(a)(3), 270.32(a), 270.32(b)(2), 270.32(c), 270.51, 270.72(a)(5), and 270.72(b)(5), "EPA" and "Administrator" or "Regional Administrator" shall be defined as the U.S. Environmental Protection Agency Region 10 Regional Administrator respectively.

013. PROCEDURES FOR DECISION-MAKING (STATE PROCEDURES FOR RCRA OR HWMA PERMIT APPLICATIONS).

40 CFR Part 124, Subparts A. B and B G are herein incorporated by reference as provided in 40 CFR, revised as of July 1, 20056, except that 40 CFR 124.19, the fourth sentence of 40 CFR 124.31(a), the third sentence of 40 CFR

124.32(a), and the second sentence of 40 CFR 124.33(a) are expressly omitted from the incorporation by reference of each of those subsections. For purposes of 40 CFR 124.6(e), 124.10(b), and 124.10(c)(1)(ii) "EPA" and "Administrator" or "Regional Administrator" shall be defined as the U.S. Environmental Protection Agency and the U.S. Environmental Protection Agency Region 10 Regional Administrator, respectively.

(BREAK IN CONTINUITY OF SECTIONS)

015. STANDARDS FOR THE MANAGEMENT OF USED OIL.

- **01. Incorporation by Reference.** 40 CFR Part 279 and all Subparts are herein incorporated by reference as provided in 40 CFR, revised as of July 1, 200<u>56</u>. For purposes of 40 CFR 279.43(c)(3)(ii) "Director" shall be defined as the Director, U.S.DOT Office of Hazardous Materials Regulation.
- **02. Used Oil as a Dust Suppressant**. 40 CFR Part 279 contains a prohibition on the use of used oil as a dust suppressant at 279.82(a), however, States may petition EPA to allow the use of used oil as a dust suppressant. Members of the public may petition the State to make this application to EPA. This petition to the State must:
- **a.** Be submitted to the Idaho Department of Environmental Quality, 1410 North Hilton, Boise, Idaho 83706-1255; and (2-11-94)
 - **b.** Demonstrate how the requirements of 40 CFR 279.82(b) will be met. (2-11-94)

016. STANDARDS FOR UNIVERSAL WASTE MANAGEMENT.

40 CFR Part 273 and all Subparts are herein incorporated by reference as provided in 40 CFR, revised as of July 1, 20056. For purposes of 40 CFR 273.32(a)(3), "EPA" shall be defined as the U.S. Environmental Protection Agency.

(BREAK IN CONTINUITY OF SECTIONS)

018. STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE FACILITIES OPERATING UNDER A STANDARDIZED PERMIT.

40 CFR Part 267 and all Subparts are herein incorporated by reference as provided in 40 CFR, revised as of July 1, 2006.

01<u>89</u>. -- 354. (RESERVED).

IDAPA 58 - DEPARTMENT OF ENVIRONMENTAL QUALITY

58.01.08 - IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS

DOCKET NO. 58-0108-0602

NOTICE OF RULEMAKING - PROPOSED RULE

AUTHORITY: In compliance with Section 67-5221(1), Idaho Code, notice is hereby given that this agency has proposed rulemaking. This action is authorized by Chapter 1, Title 39, Idaho Code, and Chapter 21, Title 37, Idaho Code.

PUBLIC HEARING SCHEDULE: No hearings have been scheduled. Pursuant to Section 67-5222(2), Idaho Code, a public hearing will be held if requested in writing by twenty-five (25) persons, a political subdivision, or an agency. Written requests for a hearing must be received by the undersigned on or before August 16, 2006. If no such written request is received, a public hearing will not be held.

DESCRIPTIVE SUMMARY: The purpose of this rulemaking is to initiate phase two of the effort to comply with Section 2 of Senate Bill 1220 (2005), which directed the Department of Environmental Quality (DEQ) to develop facility and design standards for both drinking water and wastewater systems. This is the drinking water portion. DEQ proposes to revise Sections 549 through 551 to add provisions for drinking water pumping facilities, treatment works, chemical application, source development, and management of treatment waste residuals. This rulemaking also revises the rules as necessary for consistency with changes made during the negotiated rulemaking process and includes housekeeping changes based on feedback from the regulated community and DEQ staff who routinely use the rules.

The proposed rule text is in legislative format. Language the agency proposes to add is underlined. Language the agency proposes to delete is struck out. It is these additions and deletions to which public comment should be addressed. Drinking water system owners and operators, developers, consultants, engineers, cities, counties, industry, drinking water professional organizations, and the public at large may be interested in participating in this rulemaking.

After consideration of public comments, DEQ intends to present the final proposal to the Board of Environmental Quality in November 2006 for adoption of a pending rule. The rule is expected to be final and effective upon the adjournment of the 2007 legislative session if approved by the Legislature.

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year: N/A

IDAHO CODE SECTION 39-107D STATEMENT: Section 39-107D, Idaho Code, provides that DEQ must meet certain requirements when it formulates and recommends rules which are broader in scope or more stringent than federal law or regulations, or which propose to regulate an activity not regulated by the federal government. There is no federal law or regulation that is comparable to plan and specification review and facility standard provisions set forth in these rules. Therefore, the changes to the rules are not broader in scope or more stringent than federal law or regulations.

Section 39-107D, Idaho Code, also applies to a rule which "proposes to regulate an activity not regulated by the federal government." The engineering standards for design, construction, and operation of public drinking water systems regulate activities that are not regulated by the federal government. These rules address the review and approval of plans and specifications for public drinking water systems and the standard by which the agency does the review and approval. This is not an activity regulated by the federal government. Therefore, Section 39-107D, Idaho Code, applies.

Section 39-107D(3), Idaho Code, provides that any rule subject to 39-107D that proposes a standard necessary to protect human health and the environment must also include in the rulemaking record and in the notice of rulemaking additional information. This additional information includes any estimates of risk accomplished, identification of populations or receptors addressed by any estimates, and other information related to an estimation of risk. These rules include facility and design standards which are intended to protect human health and the environment. The standards, however, are for the design and construction of public drinking water facilities. The rules are not based upon any express estimate or analysis of risk to public health or the environment. Instead, the facility and design

standards are based upon guidelines set forth in documents, such as the "Recommended Standards for Water Works" and the "American Water Works Association Standards," that are generally accepted and used throughout the United States by engineers and state regulators.

NEGOTIATED RULEMAKING: The text of the proposed rule has been drafted based on discussions held and concerns raised during negotiations conducted pursuant to Idaho Code Section 67-5220 and IDAPA 04.11.01.812-815. The Notice of Negotiated Rulemaking was published in the Idaho Administrative Bulletin, January 4, 2006, Vol. 06-1, page 133.

GENERAL INFORMATION: For more information about DEQ's programs and activities, visit DEQ's web site at www.deq.idaho.gov.

ASSISTANCE ON TECHNICAL QUESTIONS AND SUBMISSION OF WRITTEN COMMENTS: For assistance on questions concerning this rulemaking, contact Tom John, thomas.john@deq.idaho.gov, (208)373-0191.

Anyone may submit written comments on the proposed rule by mail, fax or e-mail at the address below. DEQ will consider all written comments received by the undersigned on or before August 30, 2006.

Dated this 30th day of June, 2006.

Paula J. Wilson Hearing Coordinator Department of Environmental Quality 1410 N. Hilton Boise, Idaho 83706-1255 (208)373-0418/Fax No. (208)373-0481 Paula.Wilson@deq.idaho.gov

THE FOLLOWING IS THE TEXT OF DOCKET NO. 58-0108-0602

002. INCORPORATION BY REFERENCE AND AVAILABILITY OF REFERENCED MATERIALS.

- **01. Incorporation by Reference**. The following documents are incorporated by reference into these rules. (4-11-06)
- a. 40 CFR Parts 141 and 143. Any reference in these rules to requirements, procedures, or specific forms contained in any section or subsection of 40 CFR Parts 141 and 143 shall constitute the full adoption by reference of that section or subsection, including any notes and appendices therein, unless expressly provided otherwise in these rules. (4-11-06)
- **b.** Recommended Standards for Water Works: a report of the Water Supply Committee of the Great Lakes -- Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers, 2003 Edition, except Parts One (1) and Eight (8). (4-11-06)
- **eb.** American Water Works Association (AWWA) Standards, *Edition* effective July 200<u>56</u>, available from the AWWA, 6666 West Quincy Avenue, Denver, Colorado 80235, Telephone (800) 926-7337. (4-11-06)(_____)
- **02. Availability of Specific Referenced Material**. Copies of specific documents referenced within these rules are available at the following locations: (4-11-06)

- **a.** All federal regulations: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, Telephone (202)783-3238; U.S. Government Bookstore, Room 194, Federal Bldg., 915 Second Ave., Seattle, WA 98174, (206) 553-4270; or http://www.gpoaccess.gov/index.html. (4-11-06)
- **b.** All documents incorporated by reference: Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255, (208) 373-0502. (4-11-06)
- c. Recommended Standards for Water Works: a report of the Water Supply Committee of the Great Lakes -- Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers, published by Health Education Services, P.O. Box 7126, Albany, New York 12224, 2003, Telephone (518) 439-7286.

 (4-6-05)
- **d.** Manual of Individual and Non-Public Water Supply Systems (EPA 570/9-91-004), published by the U.S. Environmental Protection Agency, available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C.20402, Telephone (202) 782-3238. (5-3-03)
- **e.** U.S. Department of Commerce, National Bureau of Standards Handbook, No. 69, "Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure" as amended in 1963, NCRP Publications, P.O. Box 20175, Washington, D.C. 20014. (12-10-92)
- f. Rules of the Idaho Water Resources Board, *HDAPA 37.03.09*, "Well Construction Standards Rules," July 1993, available at www.adm.idaho.gov/adminrules/rules/idapa37/37index.htm, or the Idaho Department of Water Resources, Idaho Water Center, 322 E. Front St., P.O. Box 83720, Boise, Idaho 83720-0098, Telephone (208) 287-4800.
- g. ANSI/NSF Standard 44-2002e -- 2004, Residential Cation Exchange Water Softeners, available from the National Sanitation Foundation, 789 N. Dixboro Road, Ann Arbor, Michigan 48105, Telephone (734) 769-8010. (4-6-05)
- h. ANSI/NSF Standard 53-2002e -- 2003, Drinking Water Treatment Units -- Health Effects, available from the National Sanitation Foundation, 789 N. Dixboro Road, Ann Arbor, Michigan 48105, Telephone (734) 769-8010. (4-6-05)
- i. ANSI/NSF Standard 55-2002 -- 2002, Ultraviolet Microbiological Water Treatment Systems, available from the National Sanitation Foundation, 789 N. Dixboro Road, Ann Arbor, Michigan 48105, Telephone (734) 769-8010. (4-6-05)
- **j.** ANSI/NSF Standard 58-2003 -- 2004, Reverse Osmosis Drinking Water Treatment Systems, available from the National Sanitation Foundation, 789 N. Dixboro Road, Ann Arbor, Michigan 48105, Telephone (734) 769-8010. (4-6-05)
- **k.** American Water Works Association (AWWA) Standards, available from the AWWA, 6666 West Quincy Avenue, Denver, Colorado 80235, Telephone (800) 926-7337.
- ANSI/NSF Standard 60-2000a -- 2000, Drinking Water Treatment Chemicals -- Health Effects, available from the National Sanitation Foundation, 789 N. Dixboro Road, Ann Arbor, Michigan 48105, Telephone (734) 769-8010.
- **ml.** ANSI/NSF Standard 61-2000a -- 2000, Drinking Water System Components -- Health Effects, available from the National Sanitation Foundation, 789 N. Dixboro Road, Ann Arbor, Michigan 48105, Telephone (734) 769-8010. (4-6-05)
- m. American Water Works Association (AWWA) Standards, available from the AWWA, 6666 West Quincy Avenue, Denver, Colorado 80235, (800) 926-7337, www.awwa.org.
 - **n.** "Cross Connection Control Manual," *December 1995 Edition*, available from Pacific Northwest

DEPARTMENT OF ENVIRONMENTAL QUALITY Idaho Rules for Public Drinking Water Systems

Docket No. 58-0108-0602 Proposed Rulemaking

Section of the American Water Works Association, P.O. Box 19581, Portland, OR, 97280-0581, Telephone (503) 246-5845.

- <u>o.</u> Manual of Cross-Connection Control, Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California, KAP-200 University Park MC-2531, Los Angeles, CA 90089-2531, (866)545-6340, www.usc.edu/dept/fccchr/.
- **p.** Manual on Slow Sand Filtration (1991), published by AWWA Research Foundation 6666 West Quincy Avenue, Denver, CO 80235, (800)926-7337, www.awwa.org.
- **q.** Slow Sand Filtration (1991), published by the American Society of Civil Engineers American Society of Civil Engineers, 1801 Alexander Bell Drive, Reston, VA 20191, (800)548-2723, www.asce.org.
- Slow Sand Filtration and Diatomaceous Earth Filtration for Small Water Systems, DOH Pub #331-204 (4/03), Washington State Department of Health, Division of Environmental Health, Office of Drinking Water, PO Box 47828, Olympia WA 98504-7828, (360)236-3100 or (800)521-0323, http://www.doh.wa.gov/ehp/dw/Programs/water_sys_design.htm.
- S. Water System Design Manual, DOH Pub #331-123 (Rev. 8/01), Washington State Department of Health, Division of Environmental Health, Office of Drinking Water, PO Box 47828, Olympia WA 98504-7828, (360)236-3100 or (800)521-0323, http://www.doh.wa.gov/ehp/dw/Programs/water sys design.htm.
- <u>t.</u> <u>Submersible Motors: Application, Installation, Maintenance (Franklin Electric AIM manual), Franklin Electric, Bluffton, Indiana 46714, (800)348-2420, http://www.franklin-electric.com/Manual/pdf/fullAIM.pdf.</u>
- <u>u.</u> Guidance Manual for Compliance with the Filtration and Disinfection Requirements for Public Water Systems Using Surface Water Sources (March 1991 Edition), U.S. Environmental Protection Agency, http://www.epa.gov/safewater/mdbp/implement.html.
- Y. Standard Methods for the Examination of Water and Wastewater, a joint publication of the American Public Health Association, the Water Environment Federation, and the American Water Works Association, 6666 West Quincy Avenue, Denver, CO 80235, 800-926-7337, www.standardmethods.org.
- •w. "Idaho Guidance for Public Drinking Water Systems," 2005 Edition, and subsequent revisions, Idaho Department of Environmental Quality, 1410 North Hilton, Boise, Idaho 83706, www.deq.idaho.gov. F480-02 Standard Specification for Thermoplastic Well Casing Pipe and Couplings Made in Standard Dimension ratios (SDR), SCH 40 and SCH 80, American Society for Testing and Materials (ASTM Standard F480-02).

"Idaho Standards for Public Works Construction," 2005 Edition, and subsequent revisions, Local Highway Technical Assistance Council, 3330 Grace Street, Boise, ID 83605, (208)344-0565. (4-11-06)

- **qy.** Memorandum of Understanding between the Idaho Department of Environmental Quality and the Idaho Division of Building Safety Plumbing Bureau, *April 2003*, Idaho Department of Environmental Quality, 1410 North Hilton, Boise, Idaho 83706, www.deq.idaho.gov.
- <u>z.</u> <u>Idaho General Safety and Health Standards (IGSHS), available from the Idaho Division of Building Safety, 1090 E. Watertower St., Meridian, Idaho 83642, (208)334-3950, http://dbs.idaho.gov/safety_code/000.html.</u>
- **03. Precedence**. In the event of conflict or inconsistency between the language in these rules and that found in any document incorporated by reference, these rules shall prevail. (4-11-06)

003. DEFINITIONS.

The definitions set forth in 40 CFR 141.2, revised as of July 1, 2002, are herein incorporated by reference except for the definition of the terms "action level," "disinfection," "noncommunity water system," and "person". (5-3-03)

- **01. Action Level.** The concentration of lead or copper in water that determines, in some cases, whether a water system must install corrosion control treatment, monitor source water, replace lead service lines, or undertake a public education program. (12-10-92)
 - **O2. Administrator**. The Administrator of the United States Environmental Protection Agency. (4-5-00)
 - **O3.** Annual Samples. Samples that are required once per calendar year. (12-10-92)
- **Q4.** Annular Opening. As used in well construction, this term refers to the nominal inside diameter of the borehole minus the outside diameter of the casing divided by two (2).
- **045. Aquifer.** A geological formation of permeable saturated material, such as rock, sand, gravel, etc., capable of yielding an economic quantity of water to wells and springs. (5-3-03)
- **056. Available.** Based on system size, complexity, and source water quality, a properly licensed operator must be on site or able to be contacted as needed to initiate the appropriate action in a timely manner. (4-6-05)
- **067. Average Daily Demand**. The volume of water used by a system on an average day based on a one (1) year period. (12-10-92)
- **072. Backflow.** The reverse from normal flow direction in a plumbing system or water system caused by back pressure or back siphonage. (12-10-92)
 - **089.** Board. The Idaho Board of Environmental Quality. (5-3-03)
- **6910. Capacity**. The capabilities required of a public drinking water system in order to achieve and maintain compliance with these rules and the requirements of the federal Safe Drinking Water Act. It is divided into three (3) main elements: (4-5-00)
- **a.** Technical capacity means the system has the physical infrastructure to consistently meet drinking water quality standards and treatment requirements and is able to meet the requirements of routine and emergency operations. It further means the ability of system personnel to adequately operate and maintain the system and to otherwise implement technical knowledge. Training of operator(s) is required, as appropriate, for the system size and complexity. (4-6-05)
- **b.** Financial capacity means the financial resources of the water system, including an appropriate budget, rate structure, cash reserves sufficient for future needs and emergency situations, and adequate fiscal controls. (4-5-00)
- **c.** Managerial capacity means that the management structure of the water system embodies the aspects of water treatment operations, including, but not limited to; (4-5-00)

	01 . 11	(4.7.00)
1	Short and long range planning;	(4-5-00)
1.	bilott and long range planning,	(+ 3 00)

- ii. Personnel management; (4-5-00)
- iii. Fiduciary responsibility; (4-5-00)
- iv. Emergency response; (4-5-00)
- v. Customer responsiveness; (4-5-00)
- vi. Source water protection; (4-5-00)
- vii. Administrative functions such as billing and consumer awareness; and (4-5-00)

viii.	Ability to meet the intent of the federal Safe Drinking Water Act.	(4-5-00)
1 <u>01</u> . connections use	Community Water System . A public water system which serves at least fiftee ed by year-round residents or regularly serves at least twenty-five (25) year-round residents	
<u>12.</u>	Components of Finished Water Storage.	()
a. substandard flo	Dead Storage. Storage that is either not available for use in the system or can ws and pressures.	provide only
<u>b.</u> additive compo	Effective Storage. Effective storage is all storage other than dead storage and is ments described in paragraphs 003.12.c. through 003.12.f.	nade up of the
<u>c.</u> sources are off.	Operational Storage. Operational storage supplies water when, under normal of This component is the larger of	conditions, the
<u>i.</u> components are	The volume required to prevent excess pump cycling and ensure that the follower full and ready for use when needed; or	owing volume
<u>ii.</u>	The volume needed to compensate for the sensitivity of the water level sensors.	()
d. difference betw	Equalization Storage. Storage of finished water in sufficient quantity to compreen a water system's maximum pumping capacity and peak daily usage.	ensate for the
<u>e.</u>	Fire Suppression Storage. The water needed to support fire flow in those systems that	at provide it.
<u>f.</u> fail or when un	Standby Storage. Standby storage provides a measure of reliability or safety factor usual conditions impose higher than anticipated demands.	should sources
	Composite Correction Program (CCP) . A systematic approach to identifying opperformance of water treatment and implementing changes that will capitalize on these sts of two (2) elements:	opportunities for e opportunities. (4-5-00)
conducted to i emphasizes app at least the f identification a	Comprehensive Performance Evaluation (CPE). A thorough review and analysis nance-based capabilities and associated administrative, operation, and maintenance dentify factors that may be adversely impacting a plant's capability to achieve coroaches that can be implemented without significant capital improvements. The CPE rollowing components: assessment of plant performance; evaluation of major und prioritization of performance limiting factors; assessment of the applicability of cance; and preparation of a CPE report.	practices. It is compliance and must consist of anit processes;
systematically	Comprehensive Technical Assistance (CTA). The implementation phase that is can dicate improved performance potential. During the CTA phase, the system must address plant-specific factors. The CTA consists of follow-up to the CPE results, imperiority setting techniques, and maintaining long term involvement to systematically	t identify and lementation of
1 2 4.	Compositing of Samples . The mixing of up to five (5) samples by the laboratory.	(4-5-00)
135. more aquifers a	Confining Layer. A nearly impermeable subsurface stratum which is located adjace and does not yield a significant quantity of water to a well.	nt to one (1) or (5-3-03)
146. sample and at a	Confirmation Sample . A sample of water taken from the same point in the system time as soon as possible after the original sample was taken.	as the original (12-10-92)

- 157. Connection. Each structure, facility, or single family residence which is connected to a water system, and which is or could be used for domestic purposes, is considered a single connection. Multi-family dwellings and apartment, condominium, and office complexes are considered single connections unless individual units are billed separately for water by the water system, in which case each such unit shall be considered a single connection.

 (10-1-93)
 - **168. Consumer.** Any person served by a public water system.

(12-10-92)

- 179. Consumer Confidence Report (CCR). An annual report that community water systems must deliver to their customers. The reports must contain information on the quality of the water delivered by the systems and characterize the risks (if any) from exposure to contaminants detected in the drinking water in an accurate and understandable manner.
 - **1820. Contaminant**. Any physical, chemical, biological, or radiological substance or matter in water. (12-10-92)
- 4921. Cross Connection. Any actual or potential connection or piping arrangement between a public or a consumer's potable water system and any other source or system through which it is possible to introduce into any part of the potable water system used water, water from any source other than an approved public water system, industrial fluid, gas or substance other than the intended potable water with which the system is supplied. Cross connections include bypass arrangements, jumper connections, removable sections, swivel or change-over devices and other temporary or permanent devices which, or because of which "backflow" can or may occur. (10-1-93)
 - **202. Department.** The Idaho Department of Environmental Quality. (12-10-92)
 - **243. Director.** The Director of the Department of Environmental Quality or his designee. (12-10-92)
- **224. Disinfection**. Introduction of chlorine or other agent or process approved by the Department, in sufficient concentration <u>or dosage</u>, and for the time required to kill or inactivate pathogenic and indicator organisms.

(5-3-03)()

- **235. Disinfection Profile**. A summary of daily Giardia lamblia inactivation through the drinking water treatment plant. The procedure for developing a disinfection profile is contained in 40 CFR 141.172 and 40 CFR 141.530-141.536. (5-3-03)
- **246. Distribution System.** Any combination of pipes, tanks, pumps, and other equipment which delivers water from the source(s) and/or treatment facility(ies) to the consumer. Chlorination may be considered as a function of a distribution system. (3-16-04)
 - **<u>27.</u> <u>Drinking Water. Means "water for human consumption".</u>**

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- **258. Drinking Water System**. All mains, pipes, and structures through which water is obtained and distributed, including wells and well structures, intakes and cribs, pumping stations, treatment plants, reservoirs, storage tanks and appurtenances, collectively or severally, actually used or intended for use for the purpose of furnishing water for drinking or general domestic use. (12-10-92)
- **269. DWIMS**. Idaho Department of Environmental Quality Drinking Water Information Management System. Replaced by SDWISS April 2001. (3-15-02)
- **2730. Enhanced Coagulation**. The addition of sufficient coagulant for improved removal of disinfection byproduct precursors by conventional filtration treatment. Conventional filtration treatment is defined in 40 CFR 141.2. (5-3-03)
- **2831. Enhanced Softening**. The improved removal of disinfection byproduct precursors by precipitative softening. (4-5-00)

- **29.** Equalization Storage. Storage of finished water in sufficient quantity to compensate for the difference between a water system's maximum pumping capacity and peak daily usage. (4-6-05)
- **302. Exemption**. A temporary deferment of compliance with a maximum contaminant level or treatment technique requirement which may be granted only if the system demonstrates to the satisfaction of the Department that the system cannot comply due to compelling factors and the deferment does not cause an unreasonable risk to public health. (12-10-92)
- 33. Facility Plan. The facility plan for a public drinking water system describes the overall system, including sources of water, treatment processes and facilities, pumping stations and distribution piping, finished water storage, and waste disposal. It is a comprehensive planning document for infrastructure and includes a plan for the future of the system/facility, including upgrades and additions. It is usually updated on a regular basis due to anticipated or unanticipated growth patterns, regulatory requirements, or other infrastructure needs. A facility plan is sometimes referred to as a master plan or facilities planning study. In general, a facility plan is an overall system-wide plan as opposed to a project specific plan.
- 344. Facility Standards and Design Standards. Facility standards and design standards are described in Sections 54900 through 552 of these rules. Facility and design standards found in Sections 54900 through 552 of these rules must be followed in the planning, design, construction, and review of public drinking water facilities.

(4-11-06)(

- **325. Fee Assessment**. A charge assessed on public drinking water systems based on a rate structure calculated by system size. (10-1-93)
- **336. Filter Profile**. A graphical representation of individual filter performance, based on continuous turbidity measurements or total particle counts versus time for an entire filter run, from startup to backwash inclusively, that includes an assessment of filter performance while another filter is being backwashed. (4-5-00)
- 37. Finished Water. Water that has completed all treatment processes and is ready for delivery to consumers.
- **348. GAC10.** Granular activated carbon filter beds with an empty bed contact time of ten (10) minutes based on average daily flow and a carbon reactivation frequency of every one hundred eighty (180) days. (4-5-00)
- **359. Groundwater System**. A public water system which is supplied exclusively by a groundwater source or sources. (12-10-92)
- 3640. Groundwater Under the Direct Influence of Surface Water. Any water beneath the surface of the ground with significant occurrence of insects or other macroorganisms, algae, or large diameter pathogens such as Giardia lamblia or Cryptosporidium, or significant and relatively rapid shifts in water characteristics such as turbidity, temperature, conductivity, or pH which closely correlate to climatological or surface water conditions. Direct influence must be determined for individual sources in accordance with criteria established by the State. The State determination of direct influence may be based on site-specific measurements of water quality and/or documentation of well construction characteristics and geology with field evaluation. (5-3-03)
- **3741. Haloacetic Acids (Five) (HAA5).** The sum of the concentrations in milligrams per liter of the haloacetic acid compounds (monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid) rounded to two (2) significant figures after addition. (4-5-00)
- 3842. Health Hazards. Any condition which creates, or may create, a danger to the consumer's health. Health hazards may consist of, but are not limited to, design, construction, operational, structural, collection, storage, distribution, monitoring, treatment or water quality elements of a public water system. See also the definition of Significant Deficiency, which refers to a health hazard identified during a sanitary survey. (5-3-03)
 - **3943. Inorganic**. Generally refers to compounds that do not contain carbon and hydrogen. (12-10-92)
 - **404.** Laboratory Certification Reciprocity. Acceptance of a laboratory certification made by another

state. Laboratory reciprocity may be granted to laboratories outside of Idaho after application, proof of home state certification, and EPA performance evaluation results are submitted and reviewed. Reciprocity must be renewed after a time specified by the Idaho Laboratory Certification Officer to remain valid. (4-5-00)

- **445. License.** A physical document issued by the Idaho Bureau of Occupational Licenses certifying that an individual has met the appropriate qualifications and has been granted the authority to practice in Idaho under the provisions of Chapter 24, Title 54, Idaho Code. (4-6-05)
 - **426. Log.** Logarithm to the base ten (10).

(12-10-92)

- **437. Material Deviation.** A change from the design plans that significantly alters the type or location of facilities, requires engineering judgment to design, or impacts the public safety or welfare. (4-11-06)
- **448. Material Modification.** For the purpose of plan and specification review requirements as specified in Subsection 551.04 504.03, those modifications of an existing public water system that are intended to increase system capacity or alter the methods or processes employed.
- **459. Maximum Contaminant Level (MCL)**. The maximum permissible level of a contaminant in water which is delivered to any user of a public water system. (11-17-05)T
- 46. Maximum Daily Consumption Rate. The average rate of consumption for the twenty four (24) hour period in which total consumption is the largest on record. (12-10-92)
- 47. Maximum Hourly Demand. The greatest volume of water used in any hour during a one (1) year period.

 (12-10-92)
- 4850. Maximum Residual Disinfectant Level (MRDL). A level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap without an unacceptable possibility of adverse health effects. For chlorine and chloramines, a public water system is in compliance with the MRDL, when the running annual average of monthly averages of samples taken in the distribution system, computed quarterly, is less than or equal to the MRDL. For chlorine dioxide, a public water system is in compliance with the MRDL when daily samples are taken at the entrance to the distribution system and no two (2) consecutive daily samples exceed the MRDL. MRDLs are enforceable in the same manner as maximum contaminant levels under Section 1412 of the Safe Drinking Water Act. There is convincing evidence that addition of a disinfectant is necessary for control of waterborne microbial contaminants. Notwithstanding the MRDLs listed in 40 CFR 141.65, operators may increase residual disinfectant levels of chlorine or chloramines (but not chlorine dioxide) in the distribution system to a level and for a time necessary to protect public health to address specific microbiological contamination problems caused circumstances such as distribution line breaks, storm runoff events, source water contamination, or cross-connections.
- 4951. Maximum Residual Disinfectant Level Goal (MRDLG). The maximum level of a disinfectant added for water treatment at which no known or anticipated adverse effect on the health of persons would occur, and which allows an adequate margin of safety. MRDLGs are nonenforceable health goals and do not reflect the benefit of the addition of the chemical for control of waterborne microbial contaminants. (4-5-00)
- **502. Method Detection Limit (MDL)**. The lowest concentration which can be determined to be greater than zero with ninety-nine percent (99%) confidence, for a particular analytical method. (12-10-92)
- **543. New System.** Any water system that meets, for the first time, the definition of a public water system provided in Section 1401 of the federal Safe Drinking Water Act (42 U.S.C. Section 300f). This includes systems that are entirely new construction and previously unregulated systems that are expanding. (4-5-00)
- **524. Noncommunity Water System.** A public water system that is not a community water system. A non-community water system is either a transient noncommunity water system or a non-transient noncommunity water system. (4-5-00)
 - 535. Non-Potable Mains. The pipelines that collect and convey non-potable discharges from or to

multiple service connections.

(4-11-06)

- **546. Non-Potable Services.** The pipelines that convey non-potable discharges from individual facilities to a connection with the non-potable main. This term also refers to pipelines that convey non-potable water from a pressurized irrigation system, reclaimed wastewater system, and other non-potable systems to individual consumers. (4-11-06)
- **557. Nontransient Noncommunity Water System.** A public water system that is not a community water system and that regularly serves at least twenty-five (25) of the same persons over six (6) months per year. (12-10-92)
- **568. Nuclear Facility.** Factories, processing plants or other installations in which fissionable material is processed, nuclear reactors are operated, or spent (used) fuel material is processed, or stored. (12-10-92)
- **579. Operating Shift**. That period of time during which water system operator decisions that affect public health are necessary for proper operation of the system. (4-5-00)
- **5860. Owner/Purveyor of Water/Supplier of Water.** The person, company, corporation, association, or other organizational entity which holds legal title to the public water system, who provides, or intends to provide, drinking water to the customers and/or is ultimately responsible for the public water system operation. (4-6-05)
- 5961. Peak Hourly Flow Demand. The highest hourly flow during any day a water system or distribution system pressure zone is likely to experience in the design year. This includes fire flow where fire flow is provided.

 (12-10-92)(_____)
- **602. Person.** A human being, municipality, or other governmental or political subdivision or other public agency, or public or private corporation, any partnership, firm, association, or other organization, any receiver, trustee, assignee, agent or other legal representative of the foregoing or other legal entity. (12-10-92)
- **643. Pesticides.** Substances which meet the criteria for regulation pursuant to the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, and any regulations adopted pursuant to FIFRA. For example, pesticides include, but are not limited to insecticides, fungicides, rodenticides, herbicides, and algaecides. (12-10-92)
 - 64. Plant. A physical facility where drinking water or wastewater is treated or processed.
- **625. Point of Use (POU) Treatment Device**. A treatment device applied to a single tap used for the purpose of reducing contaminants in drinking water at that one tap. (11-17-05)T
 - **636. Point of Use (POU) Treatment System.** A collection of POU treatment devices. (11-17-05)T
 - **Potable** *Water* **Mains.** Pipelines that deliver potable water to multiple service connections. (4-11-06)(_____)
- 658. Potable Water Services. Pipelines that convey potable water from a connection to the potable water main to individual consumers. (4-11-06)(
- 69. Preliminary Engineering Report. The preliminary engineering report for a public drinking water system facility is a report that addresses specific portions of the system or facility for which modifications are being designed. Modifications may include, but are not limited to, significant changes to existing processes or facilities, system expansion, addition of treatment, or installation of other processes and facilities. This report addresses specific purpose and scope, design requirements, alternative solutions, costs, operation and maintenance requirements, and other requirements as described in Section 503. Preliminary engineering reports are generally project specific as opposed to an overall system-wide plan, such as a facility plan. However, the preliminary engineering report shall describe modifications to the facility plan that may be required as a result of the proposed project.
 - **6670. Public Notice.** The notification of public water system consumers of information pertaining to that

water system including information regarding water quality or compliance status of the water system. (12-10-92)

- 671. Public Drinking Water System. A system for the provision to the public of water for human consumption through pipes or, after August 5, 1998, other constructed conveyances, if such system has at least fifteen (15) service connections, regardless of the number of water sources or configuration of the distribution system, or regularly serves an average of at least twenty-five (25) individuals daily at least sixty (60) days out of the year. Such term includes: any collection, treatment, storage, and distribution facilities under the control of the operator of such system and used primarily in connection with such system; and any collection or pretreatment storage facilities not under such control which are used primarily in connection with such system. Such term does not include any "special irrigation district." A public water system is either a "community water system" or a "noncommunity water system".

 (4-6-05)
 - 6872. Public Water System/Water System. Means "public drinking water system". (4-5-00)
- 73. Pump House. An above-grade structure containing important water system components, such as a well, hydropneumatic tank, booster pump, pump controls, flow meter, well discharge line, or a treatment unit. Pump houses are often called well houses in common usage, even though in modern construction these structures may not contain either a well or a pump. These terms are used interchangeably in national standards and trade publications.
- **6974. Quasi-Municipal Corporation**. A public entity, other than community government, created or authorized by the legislature to aid the state in, or to take charge of, some public or state work for the general welfare. For the purpose of these rules, this term refers to drinking water districts. (4-11-06)
- 75. Regulated Public Utility. For the purpose of these rules, any public water system that falls under the jurisdiction of the Idaho Public Utilities Commission and is subject to the rules thereof.
- **706. Repeat Compliance Period**. Any subsequent compliance period after the initial compliance period. (12-10-92)
- **747. Responsible Charge (RC)**. Responsible Charge means, active, daily on-site and/or on-call responsibility for the performance of operations or active, on-going, on-site and on-call direction of employees and assistants. (4-5-00)
- **728. Responsible Charge Operator.** An operator of a public drinking water system, designated by the system owner, who holds a valid license at a class equal to or greater than the drinking water system classification, who is in responsible charge of the public drinking water system. (4-6-05)
- **739. Reviewing Authority.** For those projects requiring preconstruction approval by the Department, the Department is the reviewing authority. For those projects allowing for preconstruction approval by others, pursuant to Subsection <u>551.04.a.</u> <u>504.03.b.</u> of these rules, the qualified <u>Idaho</u> licensed professional engineer is also the reviewing authority. (4-11-06)(_____)
 - **7480.** Sampling Point. The location in a public water system from which a sample is drawn. (12-10-92)
- **7581. Sanitary Defects**. Any faulty structural condition which may allow the water supply to become contaminated. (12-10-92)
- **7682. Sanitary Survey.** An onsite review of the water source, facilities, equipment, operation and maintenance of a public water system for the purpose of evaluating the adequacy of such source, facilities, equipment, operation and maintenance for producing and distributing safe drinking water. The sanitary survey will include, but is not limited to the following elements: (4-5-00)

a. Source; (4-5-00)

b. Treatment; (4-5-00)

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c.	Distribution system;	(4-5-00)	
d.	Finished water storage;	(4-5-00)	
e.	Pumps, pump facilities, and controls;	(4-5-00)	
f.	Monitoring and reporting and data verification;	(4-5-00)	
g.	System management and operation; and	(4-5-00)	
h.	Operator compliance with state requirements.	(4-5-00)	

- **7783. SDWIS-State**. An acronym that stands for "Safe Drinking Water Information System-State Version". It is a software package developed under contract to the U.S. Environmental Protection Agency and used by a majority of U.S. states to collect, maintain, and report data about regulated public water systems. See also the definition of DWIMS. (5-3-03)
- 84. Sewage. The water-carried human or animal waste from residences, buildings, industrial establishments or other places, together with such ground water infiltration and surface water as may be present.
- **785. Significant Deficiency.** As identified during a sanitary survey, any defect in a system's design, operation, maintenance, or administration, as well as any failure or malfunction of any system component, that the Department or its agent determines to cause, or have potential to cause, risk to health or safety, or that could affect the reliable delivery of safe drinking water. See also the definition of Health Hazards. (5-3-03)
- **7986. Special Irrigation District**. An irrigation district in existence prior to May 18, 1994 that provides primarily agricultural service through a piped water system with only incidental residential or similar use where the system or the residential or similar users of the system comply with the exclusion provisions in Section 1401(4)(B)(i)(II) or (III) of the Safe Drinking Water Act. (4-6-05)
- **807. Spring.** A source of water which flows from a laterally percolating water table's intersection with the surface or from a geological fault that allows the flow of water from an artesian aquifer. (12-10-92)
- **848. Substitute Responsible Charge Operator**. An operator of a public drinking water system who holds a valid license at a class equal to or greater than the drinking water system classification, designated by the system owner to replace and to perform the duties of the responsible charge operator when the responsible charge operator is not available or accessible. (4-6-05)
- **829. Surface Water System**. A public water system which is supplied by one (1) or more surface water sources or groundwater sources under the direct influence of surface water. Also called subpart H systems in applicable sections of 40 CFR Part 141. (4-5-00)
- **8390. SUVA** (**Specific Ultraviolet Absorption**) (*SUVA*). SUVA means Specific Ultraviolet Absorption at two hundred fifty-four (254) nanometers (nm), an indicator of the humic content of water. It is a calculated parameter obtained by dividing a sample's ultraviolet absorption at a wave length of two hundred fifty-four (254) nm (UV254) (in m=1) by its concentration of dissolved organic carbon (DOC) (in mg/l). (4-5-00)(____)
- **8491. Total Organic Carbon (TOC)**. Total organic carbon in mg/l measured using heat, oxygen, ultraviolet irradiation, chemical oxidants, or combinations of these oxidants that convert organic carbon to carbon dioxide, rounded to two (2) significant figures. (4-5-00)
- 8592. Transient Noncommunity <u>Public</u> Water System. A noncommunity water system which does not regularly serve at least twenty-five (25) of the same persons over six (6) months per year. (10-1-93)(____)
- 8693. Treatment Facility. Any place(s) where a public drinking water system or nontransient noncommunity water system alters the physical or chemical characteristics of the drinking water. Chlorination may

be considered as a function of a distribution system.

(4-5-00)

- **8794. Turbidity.** A measure of the interference of light passage through water, or visual depth restriction due to the presence of suspended matter such as clay, silt, nonliving organic particulates, plankton and other microscopic organisms. Operationally, turbidity measurements are expressions of certain light scattering and absorbing properties of a water sample. Turbidity is measured by the Nephelometric method. (12-10-92)
- 8895. Uncovered Finished Water Storage Facility. An uncovered tank, reservoir, or other facility that is used to store water that will undergo no further treatment except residual disinfection. (5-3-03)
- **896. Unregulated Contaminant**. Any substance that may affect the quality of water but for which a maximum contaminant level or treatment technique has not been established. (12-10-92)
- **967. Variance.** A temporary deferment of compliance with a maximum contaminant level or treatment technique requirement which may be granted only when the system demonstrates to the satisfaction of the Department that the raw water characteristics prevent compliance with the MCL or requirement after installation of the best available technology or treatment technique and the determent does not cause an unreasonable risk to public health. (12-10-92)
- 948. Very Small Public Drinking Water System. A Community or Nontransient Noncommunity Public Water System that serves five hundred (500) persons or less and has no treatment other than disinfection or has only treatment which does not require any chemical treatment, process adjustment, backwashing or media regeneration by an operator (e.g. calcium carbonate filters, granular activated carbon filters, cartridge filters, ion exchangers). (4-5-00)
- 929. Volatile Organic Chemicals (VOCs). VOCs are lightweight organic compounds that vaporize or evaporate easily. (10-1-93)
- **93100. Vulnerability Assessment**. A determination of the risk of future contamination of a public drinking water supply. (12-10-92)

94101. Waiver. (12-10-92)

- **a.** For the purposes of these rules, except Sections 5500 through 552, "waiver" means the Department approval of a temporary reduction in sampling requirements for a particular contaminant. (10-1-93)(____)
- b. For purposes of Sections $55\underline{0}0$ through 552, "waiver" means a dismissal of any requirement of compliance. (12-10-92)(
- ${f c.}$ For the purposes of Section 010, "waiver" means the deferral of a fee assessment for a public drinking water system. (10-1-93)
- 102. Wastewater: Unless otherwise specified, sewage, industrial waste, agricultural waste, and associated solids or combinations of these, whether treated or untreated, together with such water as is present.
- **95103.** Water for Human Consumption. Water that is used by humans for drinking, bathing for purposes of personal hygiene (including hand-washing), showering, cooking, dishwashing, and maintaining oral hygiene. In common usage, the terms "culinary water", "drinking water," and "potable water" are frequently used as synonyms.

 (5-3-03)
- **96104.** Water Main. A pipe within a public water system which is under the control of the system operator and conveys water to two (2) or more service connections. The collection of water mains within a given water supply is called the distribution system. (5-3-03)
- 97105. Water Main Extension. As used in Subsection 551.04 504.03, an extension of the distribution system of an existing public water system that does not require a booster pumping station and is intended to increase

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the service area of the water system.

11	11	06)()
7	11	'UU) (

- 106. drains the area. Watershed. The land area from which water flows into a stream or other body of water which
- 98. Well House. A structure containing important water system components, such as a well, hydropneumatic tank, booster pump, pump controls, flow meter, distribution line, or a treatment unit. Well houses are often called pump houses in common usage, even though in modern construction these structures may not contain either a well or a pump. These terms are used interchangeably in national standards and trade publications. (4-6-05)

(BREAK IN CONTINUITY OF SECTIONS)

013. USE OF GUIDANCE.

Guidance documents referenced in these rules are to be used to assist both designers and reviewers in determining a reasonable way to achieve compliance with the rules. Nothing in these rules makes the use of a particular guidance or guidance document mandatory. If the plans and specifications comply with applicable facility *standards* and design standards as set out in these rules, Section 39-118, Idaho Code, requires that the reviewing authority not substitute his or her judgment for that of the design engineer concerning the manner of compliance. If the design engineer needs assistance as to how to comply with a particular rule, the design engineer may use the referenced guidance documents for that assistance. However, the design engineer may also use other guidance or provide documentation to substantiate his or her own professional judgment.

(BREAK IN CONTINUITY OF SECTIONS)

500451. Treatment Techniques.

- **01. General Requirements.** 40 CFR 141.110 is herein incorporated by reference. (10-1-93)
- **O2.** Acrylamide, Epichlorohydrin. 40 CFR 141.111 is herein incorporated by reference. (12-10-92)
- 45<u>+2</u>. -- 499. (RESERVED).
- 501. 548. (RESERVED).

54900. FACILITY AND DESIGN STANDARDS -- DEMONSTRATION OF TECHNICAL, FINANCIAL, AND MANAGERIAL CAPACITY OF PUBLIC DRINKING WATER SYSTEMS.

No person shall proceed, or cause to proceed, with construction of a new community or nontransient, noncommunity drinking water system until it has been demonstrated to the Department that the water system will have adequate technical, financial, and managerial capacity, as defined in Section 003 of these rules. Demonstration of capacity shall be submitted to the Department prior to or concurrent with the submittal of plans and specifications, as required in Section 39-118, Idaho Code, and Subsection 551.04 504.03 of these rules. The Department shall issue its approval of the new system capacity demonstration in writing.

- **01. Technical Capacity**. In order to meet this requirement, the public water system shall submit documentation to demonstrate the following: (4-5-00)
- **a.** The system meets the relevant design, construction, and operating requirements of Sections 550, 551, and 501 through 552 of these rules; (4-5-00)(_____)
 - **b.** The system has an adequate and consistent source of water; (4-5-00)

- **c.** A plan is in place to protect the water source and deal with emergencies; (4-5-00)
- **d.** A plan exists for replacement or improvement of infrastructure as necessary; and (4-5-00)
- **e.** The system has trained personnel with an understanding of the technical and operational characteristics of the system. (5-3-03)
- **02. Financial Capacity**. A demonstration of financial capacity must include but is not limited to the following information: (4-5-00)
- **a.** Documentation that organizational and financial arrangements are adequate to construct and operate the public water system in accordance with these rules (see Sections 550, 551, and 501 through 552). This information can be provided by submitting estimated construction, operation, and maintenance costs, letters of credit, or other access to financial capital through public or private sources and, if available, a certified financial statement; (4-5-00)(
- **b.** Demonstration of revenue sufficiency, that includes but is not limited to billing and collection procedures, a proposed rate structure which is affordable and ensures availability of operating funds, revenues for depreciation and reserves, and the ability to accrue a capital replacement fund. A preliminary operating budget shall be provided; and (4-5-00)
 - c. Adequate fiscal controls must be demonstrated. (4-5-00)
- **03. Managerial Capacity.** In order to demonstrate adequate managerial capacity, the owner and/or operator of a new drinking water system shall submit at least the following information to the Department: (4-5-00)
- **a.** Clear documentation of legal ownership and any plans that may exist for transfer of that ownership on completion of construction or after a period of operation; (4-5-00)
- **b.** The name, address, and telephone number of the person who will be accountable for ensuring that the water system is in compliance with these rules; (4-5-00)
 - **c.** The name, address, and telephone number of the system operator; (4-5-00)
- **d.** A description of the manner in which the water system will be managed. By-laws, restrictive covenants, articles of incorporation, or procedures and policy manuals which describe the management organization structure are a means of providing this information; (4-5-00)
- **e.** A description of staffing should be provided, including training, experience, certification or licensing, and continuing education completed by the water system staff; (4-5-00)
- **f.** An explanation of how the water system will establish and maintain effective communications and relationships between the water system management, its customers, professional service providers, and any applicable regulatory agencies; and (4-5-00)
- g. Evidence of planning for future growth, equipment repair and maintenance, and long term replacement of system components. (4-5-00)
- **O4. Submittal Form**. The Department shall provide a standard form to be used in preparing a new system capacity demonstration. (4-5-00)
- **05. Expanding Systems.** A public water system which comes into existence as a result of growth in population or number of service connections within a previously unregulated system will be considered a new system under these rules and is subject to all design, construction and operating requirements herein. (4-5-00)
- **06. Consolidation.** In demonstrating new system capacity, the owner of the proposed new system must investigate the feasibility of obtaining water service from an established public water system. If such service is

available, but the owner elects to proceed with an independent system, the owner must explain why this choice is in the public interest in terms of environmental protection, affordability to water users, and protection of public health.

(4-5-00)

07. Exclusion. New public water systems which are public utilities as defined in Sections 61-104 (Corporation), 61-124 (Water System), 61-125 (Water Corporation), and 61-129 (Public Utility), Idaho Code, must meet the regulatory requirements of the Idaho Public Utilities Commission (IPUC) in Chapter 1, Title 61, Idaho Code, Public Utilities Law, and IDAPA 31.01.01, "Rules of Procedure of the Idaho Public Utilities Commission". Such water systems will not be required to meet any requirements of this Section which are in conflict with the provisions and requirements of the IPUC. (4-5-00)

5501. FACILITY AND DESIGN STANDARDS -- GENERAL DESIGN STANDARDS REQUIREMENTS FOR PUBLIC DRINKING WATER SYSTEMS.

- 91. System Design. Unless otherwise specified by the Department, the design of new drinking water systems, or modifications to existing, public drinking water systems, shall be in conformance with the facility and design standards set forth in Sections 006 and 500 through 552 of these rules—and "Recommended Standards for Water Works, A Report of the Water Supply Committee of the Great Lakes-Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers," except Parts One (1) and Eight (8). The following general design requirements shall apply as applicable for the type of water system and the treatment or other processes employed.
- **021. Materials** <u>Used in Construction</u>. Unless otherwise authorized by the Department on a site-specific basis, materials that are used to construct public drinking water systems and have water contact surfaces <u>must comply with shall conform to applicable AWWA standards and/or be certified by an accredited ANSI certification body to meet ANSI/NSF Standard 53, 58, or and 61, referenced in Subsection 002.02. Corrosion control shall be taken into account during all aspects of public water system design.

 (4-6-05)(_____)</u>
- **Q2.** Additives Used in Operation. No chemical or other substance shall be added to drinking water, nor shall any process be utilized to treat drinking water, unless specifically approved by the Department. All chemicals shall conform to applicable AWWA standards and be certified by an accredited ANSI certification body to meet ANSI/NSF Standard 60, referenced in Subsection 002.02.

provide year.	03. either pe	Design Basis . The system, including the water source and treatment facilities, shall be designed at hour demand of the system or peak daily pumping demand plus equalization storage at the	
	<u>04.</u>	Design of Treatment Facilities. Design of treatment facilities shall address:	<u>()</u>
	<u>a.</u>	Functional aspects of facility layout and provisions for future facility expansion;	<u>()</u>
	<u>b.</u>	Provision for expansion of waste treatment and disposal facilities;	<u>()</u>
<u>mainten</u>	<u>c.</u> ance;	Roads constructed to provide year-round access by vehicles and equipment needed for rep	air and
	<u>d.</u>	Site grading and drainage; and	<u>()</u>
	<u>e.</u>	Chemical delivery.	<u>()</u>
provide	<u>05.</u> for:	Design of Buildings . The design of buildings that are a part of public drinking water system	ns shall
	<u>a.</u>	Adequate ventilation, lighting, heating, and air conditioning;	()

Adequate drainage:

<u>b.</u>

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	<u>c.</u>	Dehumidification equipment, if necessary;	<u>()</u>
	<u>d.</u>	Accessibility of equipment for operation, servicing, and removal;	<u>()</u>
	<u>e.</u>	Flexibility and convenience of operation and safety of operators; and	()
	<u>f.</u>	Separate room(s) for chemical storage and feed equipment to reduce	hazards and dust problems.
and/or Ĭ	ocal cod	Electrical. Main switch gear electrical controls shall be located above ctrical work shall conform to the requirements of the National Electrical. The National Electrical Code is available from the National Firk, Quincy, Massachusetts 02169-7471, (617)770-3000, http://www.nf.	ical Code or to relevant state ire Protection Association, 1
or storag During a 552.01.b provided	ge so that a power o. for a n d in a pu	Reliability and Emergency Operation. New community water syninged to have sufficient dedicated on-site standby power, with automatic water may be treated and supplied to pressurize the entire distribution outage, the water system shall be able to meet the operating pressurinimum of eight (8) hours at average daily demand plus fire flow while the distribution water system shall be coordinated with the standby particle of the properties of the standby particle of the system.	c switch-over capability, and/ system during power outages. e requirements of Subsection here provided. Standby power
systems	a. if the fre	The Department may require the installation of standby power or quency and duration of power outages a system experiences constitute	storage facilities in existing a health hazard.
meet the	b. e requirer	Existing community public water systems that are substantially modinents of Subsection 501.07. in those portions of the system affected by	
		For the purposes of Subsection 501.07., the Department shall consider there is a combined increase of twenty-five percent (25%) or more the following factors:	
	<u>(1)</u>	Population served or number of service connections.	()
	<u>(2)</u>	Total length of transmission and distribution water mains.	()
	<u>(3)</u>	Peak or average water demand per connection.	<u>()</u>
standby	<u>ii.</u> power oi	New sources and booster pumps intended to increase system cap equivalent.	acity shall be provided with
Subsecti outage.	<u>c.</u> ion 501.0 Any deci	For both new and existing public water systems, the Department ma 07 if the system can demonstrate the capacity to adequately protect sion by the Department will be based on, but not limited to, the follow	public health during a power
	<u>i.</u>	An adequate emergency response and operation plan and the capacity	to implement that plan.
health in	<u>ii.</u> 1 the ever	The adequacy of the system's cross connection control program and nt of a system wide depressurization.	the capacity to protect public ()
system.	<u>iii.</u>	Demonstration of historical and projected reliability of the electrical	power supplied to the water ()
stop irriş	<u>iv.</u> gation, be	A strategy for providing information to the public during power outable but water, etc., until notified otherwise.	nges, including instructions to

v. The level of reliability acceptable to consumers. This can be accomplished with either a vote of the majority of consumers for privately owned and operated systems or a decision by the governing body for public
governed systems.
vi. Other considerations that may be pertinent, including connections to other public water systems agreements to provide water in emergency situations, and the availability of dedicated portable auxiliary power.
<u>On-Site Analysis and Testing Capabilities.</u> Each public water system shall have equipment an facilities for routine testing necessary to ensure proper operation. Equipment selection shall be based on the characteristics of the raw water source and the complexity of the treatment process involved.
O9. Sample Taps. Sample taps shall be provided so that water samples can be obtained from each water source and from appropriate locations in each unit operation of treatment, and from the finished water. Tap shall be consistent with sampling needs and shall not be of the petcock type. Taps owned by the water system and used for obtaining samples for bacteriological analysis shall be of the smooth-nosed type without interior or exterior threads, shall not be of the mixing type, and shall not have a screen, aerator, or other such appurtenance.
10. Facility Potable Water Supply. The facility water supply service line and the plant finished water sample tap shall be supplied from a source of finished water at a point where all chemicals have been thoroughly mixed, and the required disinfectant contact time, if applicable, has been achieved. There shall be no cross connections between the facility water supply service line and any piping, troughs, tanks, or other treatment unit containing wastewater, treatment chemicals, raw or partially treated water.
11. Meters. All water supplies shall have an acceptable means of measuring the flow from each source the wash water, the recycled water, any blended water of different quality, and the finished water.
12. Operation and Maintenance Manual. An operation and maintenance manual or manuals shall be provided for all public water systems. The manual shall include, but is not limited to, the following contents: dail operating instructions, operator safety procedures, location of valves and other key system features, parts list an parts order form, and information for contacting the water system operator. An operational trouble-shooting section shall be supplied to the water works as part of any proprietary unit installed in system facilities.
13. Start-Up Training. Provisions shall be made for operator instruction at the start-up of a new plan or pumping station.
14. Safety. Consideration shall be given to the protection of maintenance personnel and visitors from typical and foreseeable hazards in accordance with the engineering standards of care. The design shall comply with all applicable safety codes and regulations that may include the Uniform Building Code, Uniform Fire Code, National Fire Protection Association Standards, and state and federal OSHA standards. Items to be considered include, but an not limited to, noise arresters, noise protection, confined space entry, protective equipment and clothing, gas mask safety showers and eye washes, handrails and guards, warning signs, smoke detectors, toxic gas detectors and firextinguishers.
15. Security. Appropriate design measures to help ensure the security of water system facilities shat be incorporated. Such measures, at a minimum, shall include means to lock all exterior doorways, windows, gate and other entrances to source, treatment, pumping stations, and water storage facilities.
16. Other Regulations. Consideration must be given to the design requirements of other federal, state and local regulatory agencies for items such as safety requirements, special designs for the handicapped, plumbin and electrical codes, and construction in the flood plain.
502. FACILITY AND DESIGN STANDARDS - FACILITY PLANS. See the definition of Facility Plan in Section 003.
01. Facility Plans Required. All new public drinking water systems, and existing public drinking water systems undergoing material modification or expansion, are required to have a current facility plan that sha

address all applicable issues specifically required in Sections 500 through 552 of these rules including, but not 1 to, hydraulic capacity, treatment capacity, project financing, and operation and maintenance consider sufficiently to determine the effects of the project on the overall infrastructure. Material modification or expethat requires a facility plan includes upgraded, or rehabilitated public drinking water system facilities. Facility must address the entire potential service area of the project. Facility plans are not required for minor or required for mino	rations pansion y plans
distribution system projects. Determination of projects that are considered to be minor or routine shall be made Department based on a review of the owner's recommendations and accompanying rationale. O2. Submittal to the Department. Facility plans shall be submitted to the Department for review approval prior to the submission of plans and specifications for a project related to the facility plan. In the contract of the submission of plans and specifications for a project related to the facility plan. In the contract of the submission of plans and specifications for a project related to the facility plan. In the contract of the submission of plans and specifications for a project related to the facility plan.	by the () ew and
water main extensions reviewed by a qualified Idaho licensed professional engineer pursuant to Subsection 504 an updated facility plan shall be submitted to the Department for review and approval unless the reviewing auralready has a Department approved facility plan in his possession.	1.03.b., thority ()
Gality Plan Contents. The facility plan must include sufficient detail to demonstrate the proposed project meets applicable criteria. The facility plan generally addresses the overall system-wide plangerility plan shall identify and evaluate problems related to the drinking water system; assemble basic inform present criteria and assumptions; examine alternative solutions with preliminary layouts and cost estimates; definancing methods; set forth anticipated charges for users; review organizational and staffing requirements; conclusion with a proposed project for client consideration; and outline official actions and procedures to implicate the proposed project for client consideration; and outline official actions and procedures to implicate the proposed project for client consideration; and outline official actions and procedures to implicate the proposed project for client consideration; and outline official actions and procedures to implicate the proposed project for client consideration; and outline official actions and procedures to implicate the proposed project for client consideration; and outline official actions and procedures to implicate the proposed project for client consideration; and outline official actions and procedures to implicate the proposed project for client consideration; and outline official actions are proposed project for client consideration; and outline official actions are proposed project for client consideration; and outline official actions are proposed project for client consideration; and outline official actions are proposed project for client consideration; and outline official actions are proposed project for client consideration; and outline official actions are proposed project for client consideration.	n. The nation; escribe offer a lement
the project. If the project is funded by the state revolving fund or a grant, other requirements may also appl IDAPA 58.01.20, "Rules for Administration of Drinking Water Loan Program," and IDAPA 58.01.22, "Ru Administration of Planning Grants for Public Drinking Water Facilities." A checklist, which can be used as gui can be found at http://www.deq.idaho.gov/water/permits forms/forms/drinking water/form i report checklist. The guidance document is for Department grant and loan projects, but may be used in part or in whole as a guassist in the development of a facility plan for any proposed project.	les for idance, ist.pdf.
04. Engineer's Seal Required. Facility plans shall be submitted by an Idaho licensed profesengineer and bear the imprint of the engineer's seal that is both signed and dated by the engineer.	ssional ()
503. FACILITY AND DESIGN STANDARDS - PRELIMINARY ENGINEERING REPORTS. See the definition of Preliminary Engineering Report in Section 003. For all new water systems or m modifications to existing water systems, a preliminary engineering report shall be submitted to the Departmer review and approval, or other reviewing authority in the case of water main extensions, prior to the submittal or and specifications as required in Subsection 504.03. Preliminary engineering reports are not required for mirroutine distribution system projects designed under a facility plan. This report shall provide the following:	ent for f plans
<u>O1.</u> <u>Engineer's Seal</u> . Preliminary engineering reports shall be submitted by an Idaho lie professional engineer and bear the imprint of the engineer's seal that is both signed and dated by the engineer.	censed
 <u>Location</u>. A general description and location of the project. <u>Population</u>. The estimated design population of the project. 	<u>()</u>
<u>04.</u> <u>Water Quantity.</u> Design data for domestic, irrigation, fire fighting, commercial and ind water uses, including peak hourly, peak daily, and average daily demands.	lustrial ()
05. Storage storage requirements.	()
Operating Pressure. Pressure ranges for normal and peak flow conditions. Understing Application Application and peak flow conditions.	()
by the Department; any analysis of an existing distribution system if required sophistication of analysis shall be dependent on the type of system.	

<u>08.</u>

Sources of Water. Adequacy, quality and availability of sources of water. A water system that is to

	separate non-potable irrigation system must provide documentation of legal water right actual availability of water in sufficient quantity to ensure that the irrigation system will not co	
	ay diminish the source of water for the potable water system.	
	Sewage. Describe the sewage collection system and sewage treatment works, with some relationship to existing or proposed water works structures which may affect the operation tem, or which may affect the quality of the supply.	of the
system, verify th	Treatment Wastes. Characterize the various wastes from the water treatment processes a volumes, constituents, and proposed treatment and disposal. If discharging to a sanitary sat the system is capable of handling the flow to the treatment works and that the treatment works the additional loading.	ewage
	Monitoring Results - Community Systems. Results of analysis for total coliform, ino tinants, organic chemicals, and radionuclide contaminants set forth in Subsections 050.01, 0 100.03, 100.04, 100.05, and 100.06, unless analysis is waived pursuant to Subsection 100.07.	
	Monitoring Results - Nontransient Noncommunity Systems. Results of analysis for organic and organic chemical contaminants listed in Subsections 050.01, 050.02, 100.01, 1 halysis is waived pursuant to Subsection 100.07.	r total 00.03,
13. nitrate analysis li	Monitoring Results - Transient Noncommunity Systems. Results of a total coliform, nitritisted in Subsections 050.01, 100.01 and 100.03.	te, and
14. surface water, res	Turbidity. For any system supplied by surface water or groundwater under the direct influe sults of turbidity analysis listed in Subsection 100.02.	nce of
determine if thes	Evaluation of Surface Water Influence. For all new ground water sources, including be springs, and infiltration galleries, systems shall supply information as required by the Departmeter sources are under the direct influence of surface water. This requirement shall also apply water source that is found to be at risk of surface water influence during a field survey conduction.	nent to to any
16. describe how the	Potential Contamination. Identify sources of contamination near proposed sources of wat sources will be protected.	er and
<u>17.</u>	Flooding. Mechanisms for protection of the system from flooding.	()
	Additional Information - Surface Water. In addition to the items listed in Subsections 5 the following information must be provided for proposed surface water sources and ground edirect influence of surface water:	503.01 water
<u>a.</u>	Hydrological and historical stream flow data.	
<u>b.</u>	A copy of the water right(s) from the Idaho Department of Water Resources.	
<u>c.</u>	Anticipated turbidity ranges, high and low.	
<u>d.</u>	Treatment selection process and alternative evaluations.	()
<u>e.</u>	Assessment of the degree of control the water system will be able to exercise over the waters	hed.
<u>f.</u>	Projected future uses of impoundments or reservoirs within the watershed.	
σ.	Assess degree of hazard to the supply by agricultural, industrial, recreational, and resid	lential

	s in the nt process	watershed, and by accidental spillage of materials that may be toxic, harmful or detriments.	ental to
waste di	<u>h.</u> ischarge s	Assess all waste discharges and activities that could impact the water supply. The location shall be shown on a scale map.	of each
physical	i. l, chemica	Obtain source water samples over a sufficient period of time to assess the microbio al and radiological characteristics of the water.	logical,
	<u>j.</u>	Consideration of currents, wind and ice conditions, and the effect of confluent streams.	()
	<u>19.</u>	Additional Information - Ground Water.	()
must be	<u>a.</u> provided	In addition to the items listed in Subsections 503.01 through 503.17, the following infor a proposed ground water source:	rmation ()
	<u>i.</u>	A site evaluation report as required in Section 510 for wells and Section 514 for springs.	()
location	<u>ii.</u>	Dimensions of the well lot and location of source. Include geographical coordinates of the	source ()
	<u>iii.</u>	Underground geological data and existing well logs.	()
the treat		If the water is to be treated, summarize the adequacy of proposed processes and unit parame he specific water. Bench scale testing, pilot studies, or demonstrations of treatment adequacy	
	<u>c.</u>	A copy of the water right(s) from the Idaho Department of Water Resources.	()
building	20. g foundati	Soils and Ground Water Levels. Generally discuss soil, ground water conditions, and potential problems, including a description of:	otential ()
	<u>a.</u>	The character of the soil through which water mains are to be laid.	<u>()</u>
construc	<u>b.</u> ction of th	Characteristics of the soil, water table, and geological substrate that may affect the desine foundations of proposed structures.	gn and
	<u>c.</u>	The approximate elevation of ground water in relation to subsurface structures.	<u>()</u>
public v	ility and o vater syst nen guida	ITY AND DESIGN STANDARDS - REVIEW OF PLANS AND SPECIFICATIONS. design standards set forth in these rules shall be applied in the review of plans and specification facilities. If design issues are not addressed by the facility and design standards set out ince documents, some of which are listed in Subsection 002.02., shall be used as guidance wof plans and specifications for public drinking water facilities. See also Section 013.	n these e in the
required assure c include	l in Subsections the name	Ownership. Documentation of the ownership and responsibility for operating the proposed vailable to the Department prior to or concurrent with the submittal of plans and specificate ection 504.03. The documentation must show organization and financial arrangements adequation, operation and maintenance of the system according to these rules. Documentation should be system, the name, address, and phone number of the supplier of water, the system dress, and phone number of the system operator.	ions as uate to all also
provide purveyo	services or to prov	Connection to an Existing System. If the proposed project is to be connected to an existing etter from the purveyor must be submitted to the Department stating that the purveyor will be to the proposed project. The Department may require documentation supporting the ability ride service to the new system without diminishing quality of service to existing customer omitted prior to or concurrent with the submittal of plans and specifications as required in Sub	able to of the s. This

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<u>504.03.</u>		()
<u>03.</u>	Plans and Specifications Required.	<u>()</u>
specifications m	or more service connections, or material most be submitted to the Department for review months of the Department's final approval,	water systems, new drinking water systems designed diffications of existing public water systems, plans and ew and approval. If construction does not commence the Department may require re-submittal of all or part
regulated public licensed profession to verify compli- pursuant to Subs with a statement	when such extensions will be owned and ope attilitity, provided that such plans and specific onal engineer who was not involved in the pre- ance with the requirements of these rules pre- ection 504.03.b. shall be transmitted to the D that the plans comply with the requirements of	ensions shall not require pre-construction approval by rated by a city, county, quasi-municipal corporation or ations are reviewed and approved by a qualified Idaho paration of the plans and specifications being reviewed ior to initiation of construction. Any plans approved epartment at the time construction is authorized along of these rules and that construction has been authorized ublic utility that will own and operate the system.
<u>c.</u> plans addressed to of construction.		municipal corporation or regulated public utility, the Department for review and approval prior to initiation ()
d. shall be submitte system.		manual or manuals, as required in Subsection 501.12, prior to start-up of the new or modified public water
and engineering	these rules and engineering standards of care.	hall review plans and specifications to determine If the plans and specifications comply with these rules substitute its judgment for that of the owner's design ()
Department and thereafter, the ap demand, the Dep explaining any re	sues within forty-two (42) calendar days o applicant have not resolved design issues plicant may file a written demand to the Deartment shall deliver a written decision to the easons for disapproval. The Department shall	all review plans and specifications and endeavor to submittal such that approval can be granted. If the within forty-two (42) calendar days or at any time partment for a decision. Upon receipt of such written applicant within no more than seven (7) calendar days maintain records of all written demands for decision uding the final decision rendered and the timeliness
	Engineer's Seal Required. Plans and speneer and bear the imprint of the engineer's sea ofessional geologist on the following:	ecifications shall be submitted by an Idaho licensed al; except that the Department will accept the seal of an ()
a. 510 and 514.	Well source, spring source, or infiltration gal	lery site evaluation reports, as specified in Subsections ()
<u>b.</u> specified in Secti		etion and results of field inspection and testing, as
<u>07.</u> following:	Contents of Plans and Specifications. Plan	s and specifications shall, where pertinent, provide the ()
<u>a.</u>	General layout, including:	<u>()</u>

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<u>i.</u>	Suitable title.	()
<u>ii.</u>	Name of municipality or other entity or person responsible for the wa	ater supply. ()
<u>iii.</u>	Area or institution to be served.	()
<u>iv.</u>	Scale of drawings.	()
<u>v.</u>	North arrow.	()
<u>vi.</u>	Datum used.	()
<u>vii.</u>	General boundaries of municipality or area to be served.	()
<u>viii.</u>	Date, name, and address of the designing engineer.	()
<u>ix.</u>	Legible prints suitable for reproduction.	()
<u>X.</u>	Location and size of existing water mains, if applicable.	()
xi. structures and a	For systems undergoing material modification, location and nate popurtenances affecting the proposed improvements.	ure of existing water works ()
<u>b.</u>	Detailed plans, including:	()
i. and extreme hig	Stream crossings, providing profiles with elevations of the stream hand, where appropriate, low water levels.	bed and the estimated normal ()
ii. such as roads, s	Location and size of the property to be used for the development wit treams, section lines, or streets.	h respect to known references ()
<u>iii.</u>	Topography and arrangement of present or planned wells or structure	<u>()</u>
<u>iv.</u> termination of p	Elevations of the one hundred (100) year flood level in relation to rotective casings, and grade surrounding facilities.	the floor of structures, upper
and depths, gro specified in Sec	Details of well construction, including diameter and depth of drill houting depths, elevations, and designation of geological formations, with tion 510.	les, casing and liner diameters vater levels and other data as ()
vi. water sources or	Location of all known existing and potential sources of pollution wit underground treated storage facilities.	hin five hundred (500) feet of ()
<u>vii.</u>	Size, length, and materials of proposed water mains.	()
viii. combined and h	Location of existing or proposed streets; water sources, ponds, lake ouse sewers; septic tanks, disposal fields and cesspools.	es, and drains; storm sanitary,
<u>ix.</u>	Schematic flow diagrams and hydraulic profiles showing the flow the	rough various plant units.
<u>X.</u>	Piping in sufficient detail to show flow through the plant including w	aste lines. ()
<u>xi.</u> application.	Locations of all chemical storage areas, chemical feeding equipments	nent, and points of chemical
<u>xii.</u>	All appurtenances, specific structures, equipment, water treatment p	plant waste disposal units and

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points of discharge having any relationship to the plans for water mains or water works	s structures. ()
<u>xiii.</u> <u>Locations of sanitary or other facilities, such as lavatories, showe applicable or required by the Department.</u>	ers, toilets, and lockers, when
xiv. Locations, dimensions, and elevations of all proposed plant facilities	<u>()</u>
<u>xv.</u> <u>Locations of all sampling taps owned by the water system.</u>	()
<u>xvi.</u> <u>Adequate description of any significant features not otherwise coverage impact public safety or welfare.</u>	ered by the specifications that
<u>c.</u> Complete, detailed technical specifications shall be supplied for the	proposed project, including:
i. A program for keeping existing water works facilities in operation du facilities so as to minimize interruption of service.	uring construction of additional
ii. Laboratory facilities and equipment.	()
iii. Description of chemical feeding equipment.	
iv. Procedures for flushing, disinfection and testing, as needed, prior to All wells, pipes, tanks, and equipment which can convey or store potable water shal with AWWA Standards, incorporated into these rules at Subsection 002.01. Plans or procedure and include the disinfectant dosage, contact time, and method of testing the	ll be disinfected in accordance specifications shall outline the
v. <u>Materials or proprietary equipment for sanitary or other facility backflow or back-siphonage protection.</u>	ties, including any necessary
<u>d.</u> Complete design criteria, as set forth in these rules.	()
e. The Department may require additional information which is not particulating, but not limited to, head loss calculations, proprietary technical data, and corrections are the controlled to t	
08. Notification of Material Deviations. As set forth in Subsection 5 modification, the reviewing authority must be notified of any material deviation freviewing authority's prior written approval is required before any material deviation in the second	from the approved plans. The
Q9. Record Plans and Specifications Required. Within thirty (30) cale construction of facilities for which plans are required to be reviewed pursuant to Subse specifications based on information provided by the construction contractor and fix engineer or the engineer's designee depicting the actual construction of facilities perform Department by the engineer representing the city, county, quasi-municipal coporation owns the project, or by the design engineer or owner-designated substitute engineer if and operated by a city, county, quasi-municipal corporation or regulated public to professional engineer must confirm material compliance with the approved plans and material deviations therefrom. If the construction does not materially deviate fix specifications, the owner may have a statement to that effect prepared by an Idaho lice filed with the Department in lieu of submitting a complete and accurate set of record defined.	ection 504.03, record plans and eld observations made by the rmed, must be submitted to the or regulated public utility that the facilities will not be owned utility. Such submittal by the specifications or disclose any rom the approved plans and nsed professional engineer and
<u>10.</u> <u>Exception</u> . The Department may waive the plan and specificati particular facility or category of facilities when doing so will have no significant in environment.	
11. Requirement to Have Approved Plans and Specifications an	nd Approval Letter On-Site

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During Construction. It is the responsibility of the owner to maintain one (1) copy of the approved plans and specifications and the approval letter from the reviewing authority on-site during construction at all times.

12. Construction. Except as provided in Subsection 504.03.b., no construction shall commence until all of the necessary approvals have been received from the Department. The owner shall provide for the inspection of the construction of a public drinking water system facility by an Idaho licensed professional engineer to the extent required to confirm material compliance with the approved plans and to produce accurate record documents as required by Subsection 504.09.

505. -- 509. (RESERVED).

510. FACILITY AND DESIGN STANDARDS - SITING AND CONSTRUCTION OF WELLS.

- witing by the Department. The Department shall require the supplier of water to submit a well site evaluation report that takes into account the proposed size, depth, and location of the well. The evaluation may include, but is not limited to the following types of information:

 (5-3-03)(____)
 - ia. An evaluation of the potability and quality of anticipated groundwater. (5-3-03)
- #<u>b</u>. Identification of the known aquifers and the extent of each aquifer, based on the stratigraphy, sedimentation, and geologic structure beneath the proposed well site. (5-3-03)
 - *iiic.* An estimate of hydrologic and geologic properties of each aquifer and confining layers. (5-3-03)
- ivd. Prediction of the sources of water to be extracted by the well and the drawdown of existing wells, springs, and surface water bodies that may be caused by pumping the proposed well. This prediction may be based on analytical or numerical models as determined by the Idaho Department of Water Resources permitting process.
- $\forall \mathbf{e}$. Demonstration of the extent of the capture zone of the well, based on the well's design discharge and on aquifer geology, using estimates of hydraulic conductivity and storativity. (5-3-03)
 - **vif.** Description of potential sources of contamination within five hundred (500) feet of the well site. (5-3-03)
- **b02.** Location. Each well shall be staked by the design engineer prior to drilling, be located a minimum of fifty (50) feet from any potential source of contamination the nearest property line, and be no closer to specified sources of contamination than set forth in Subsection $900.01_{\frac{1}{2}}$. In vulnerable settings, the Department may require engineering or hydrologic analysis to determine if the required setback distance is adequate to prevent contamination; $\frac{(5-3-03)(}{}$
- e03. Construction Standards. Each well shall comply with the minimum Well Construction Standards and with the permitting requirements of the Idaho Water Resources Board, as set forth in Subsection 002.02.f.; except that no public water system well shall have less than fifty-eight (58) feet of annular seal of not less than two (2) inches thickness, unless: In addition to meeting the requirements of these rules, all wells shall be constructed in accordance with IDAPA 37.03.09, "Well Construction Standards Rules," and related rules and laws administered by the Idaho Department of Water Resources. All wells shall comply with the drilling permit requirements of Section 42-235, Idaho Code. (5-3-03)
- <u>a.</u> <u>Casing that meets the requirements set forth in Subsection 900.03 (Table 3). The use of plastic well casing for public water system wells may be considered on a case-by-case basis. Plastic casing shall meet or exceed ASTM Standard F480-02 and ANSI/NSF Standard 61.</u>

than one and one	Public water system wells shall have no less than fifty-eight (58) feet of annular seal of not less-half (1½) inches thickness as measured from land surface to the bottom of the seal unless: (
i. that is capable of	It can be demonstrated to the Department's satisfaction that there is a confining layer at lesser depth preventing unwanted water from reaching the intake zone of the well; or (5-3-03)
ii.	The best and most practical aquifer at a particular site is less than fifty-eight (58) feet deep; or; (5-3-03)
iii.	The Department specifies a different annular seal depth based on local hydrologic conditions. (5-3-03
<u>iv.</u> referenced in Sub	More stringent standards are required by applicable Rules of the Idaho Water Resources Board osection 002.02.
Department. If th	Specifications shall include allowable tolerances for plumbness and alignment in accordance with ls, incorporated by reference into these rules at Subsection 002.01, or as otherwise approved by the well fails to meet these requirements, it may be accepted by the Department if it does not interfere ion or operation of the pump or uniform placement of grout.
longitude or GIS	Geological data shall be collected at each pronounced change in formation and shall be recorded in Supplemental data includes, but is not limited to, accurate geographical location such as latitude and coordinates, and other information on accurate records of drillhole diameters and depths, assembled length of casing, screens and liners, grouting depths, formations penetrated, and water levels.
<u>e.</u> properly abandor	The owner of each well shall retain all records pertaining to each well until the well has been ded.
<u>f.</u>	Wells with intake screens shall:
<u>i.</u> operations.	Be constructed of materials resistant to damage by chemical action of ground water or cleaning
<u>ii.</u>	Have openings based on sieve analysis of formation and/or gravel pack materials.
iii. velocity not to ex	Have sufficient length and diameter to provide adequate specific capacity and aperture entrance acceed point three (0.3) feet per second, or as otherwise approved by the Department.
same material as	Be installed so that the pumping water level remains above the screen under all operating herwise approved by the Department. Where a bottom plate or sump is utilized, it shall be of the screen, or as otherwise approved by the Department. Where a washdown assembly, tailpipe of the screen, it may be made of a different material than the screen.
referenced in Su	Permanent well casing shall be surrounded by a minimum of one and one-half (1 ½) inches of groundered by Subsection 510.03.a. of these rules, or by the Rules of the Idaho Water Resources Board bsection 002.02, whichever is more stringent. All casing identified in plans and specifications as shall be removed prior to well completion.
inch openings. A	Neat cement grout consisting of cement that conforms to AWWA Standard A-100, and water, with (6) gallons of water per ninety-four (94) pounds of cement, shall be used for one and one-half (1½ dditives may be used to enhance effectiveness and are subject to approval by the reviewing authority partment of Water Resources on a case-by-case basis.
ii. mixed with water	Bentonite grout shall have a solids content not less than twenty-five (25) percent by weight when and be specifically manufactured for use in sealing of well casing. Bentonite grout shall not contain

		s to increase solids content. Bentonite grout shall not be used above the water table. All stalled by positive displacement from the bottom up through a tremmie or float shoe.	bentonite ()
bentonit	<u>e. Âll dr</u> a tremmi	Where a dry annular space is to be sealed, a minimum of two (2) inches on all sides of to place bentonite to depths not greater than one hundred (100) feet, using #8 mestry pour granular bentonite shall be tagged at appropriate intervals to verify placement. It is pipe shall be washed or jetted through the bridge to allow for pumping of grout. Bento ient size to accommodate proper placement for the existing subsurface conditions.	<u>h granular</u> If a bridge
approve pipe sha	d by the Il be was	Dry granular bentonite used in wells where a dry annular space is to be sealed with dep d (100) feet shall require an annulus of at least three (3) inches on all sides of the careviewing authority and the Idaho Department of Water Resources. If a bridge occurs, shed or jetted through the bridge to allow for pumping of grout. Bentonite chips shall be obtate proper placement for the existing subsurface conditions.	sing, or as a tremmie
allow fo	or pumpi	All chip bentonite seals installed through water shall only be used in annular spaces of as sides of the casing. If a bridge occurs, a tremmie pipe shall be washed or jetted through the grout. Bentonite chips shall be of sufficient size to accommodate proper placemate conditions. Chip bentonite seals installed through water shall be:	e bridge to
	<u>(1)</u>	Installed in accordance with manufacturer's specifications; or	()
chips to	(2) remove t	<u>Installed by pouring chips over a one-quarter (1/4) inch mesh screen for three-eighths fines to prevent bridging at the water table; or</u>	(3/8) inch
Idaho D	(3) epartmer	Installed using coated pellets to retard hydration if approved by the reviewing authoring of Water Resources.	ty and the
	Portland	Concrete may be approved on a case-by-case basis by the reviewing authority and Vater Resources. Upon such approval, the approved method shall use a six (6) sack minus of cement concrete and shall be installed by positive displacement from the bottom up	ne-half (1/
Water R		Disinfection. All tools, bits, pipe, and other materials to be inserted in the borehole munifected in accordance with the Well Construction Standards and permitting requirements of Board, as set forth referenced in Subsection 002.02.f. This applies to new well constructions.	f the Idahouction and
water, th	e<u>05</u>. ne follow	<u>Information Required.</u> Upon completion of a groundwater source, and prior to its use a ring information and data must be submitted by the water system to the Department: (5-3-3)	ıs drinking -03) ()
	<u> †a</u> .	A copy of all well logs;	(12-10-92)
	<i>∺</i> <u>b</u> .	Results of test pumping, as specified in Subsection 550.03.f. 510; (5-3)	-03) ()
	<i>iii</i> c ∙	As constructed plans showing at least the following:	(12-10-92)
	(1) <u>i.</u>	Annular seal, including depth and sealant material used and method of application;	(5-3-03)
Water N	(2) Yorks, inc	Casing that meets the requirements set forth in Section 3.2.5.4 of Recommended Statelluding weights and thicknesses specified in Table 1 of that publication;	ndards for (5-3-03)
aquifers	(3) ii. , gravel p	Casing perforations, results of sieve analysis used in designing screens installed in sanc packs; and	d or gravel (5-3-03)
	(4) iii.	Pump location; and	(12-10-92)

- (5)iv. For community water systems, a permanent means for measuring water level. All equipment required for conducting water level measurements shall be purchased and made available to the water system operator at the time well construction is completed. Where pneumatic or electronic water level measuring equipment is used, it shall be made using corrosion resistant materials attached firmly to the drop pipe or pump column and in such a manner as to prevent entrance of foreign materials.

 (5-3-03)(____)
 - *iv***d.** Other information as may be specified by the Department. (12-10-92)
- ve. Sampling results for iron, manganese, corrosive *lyity*, and other secondary contaminants specified by the Department. Other monitoring requirements are specified in Subsection 551.01 503. (5-3-03)(____)
- **f06. Test Pumping**. Upon completion of a ground water source, test pumping shall be conducted in accordance with the following procedures to meet the specified requirements: (12-10-92)
- ta. The well shall be test pumped at the desired yield (design capacity) of the well for at least twenty-four (24) consecutive hours after the drawdown trend has stabilized, as determined by the supervising engineer or geologist. Alternatively, the well may be pumped at a rate of one hundred fifty percent (150%) of the desired yield for at least six (6) continuous hours after the drawdown trend has stabilized, as determined by the supervising engineer or geologist. In either case, if the drawdown does not stabilize, the pumping must continue for at least seventy two (72) consecutive hours. The field pumping equipment must be capable of maintaining a constant rate of discharge during the test. Discharge water must be piped an adequate distance to prevent recharge of the well during the test. If the well fails the test protocol, the well design of the water system shall be re-evaluated and submitted to the Department for approval.
- **iib.** Upon completion of well development, the well shall be tested for sand production. Fifteen (15) minutes after the start of the test pumping (at or above the design production rate), the sand content of a new well shall not be more than five (5) parts per million. Sand production shall be measured by a centrifugal sand sampler or other means acceptable to the Department. If sand production exceeds five (5) ppm, the well shall be screened gravel packed, and or re-developed.

 (5-3-03)(_____)
 - *iii*c. The following data shall be provided: (5-3-03)
 - (1)i. Static water level in the well prior to test pumping; (5-3-03)
- $\frac{(2)ii.}{}$ Well yield in gpm and duration of the pump test, including a discussion of any discrepancy between the desired yield and the yield observed during the test; (5-3-03)
 - (3) iii. Water level in the well recorded at regular intervals during pumping; (5-3-03)
 - (4)iv. Profile of water level recovery from the pumping level projected to the original static water level. (5-3-03)
 - (5)v. Depth at which the test pump was positioned in the well; (5-3-03)
 - (6-)vi. Test pump capacity and head characteristics; (5-3-03)
 - (7)vii. Sand production data. (5-3-03)
- (8) viii. Any available results of analysis based on the drawdown and recovery test pertaining to aquifer properties, sustained yield, and boundary conditions affecting drawdown. (5-3-03)
- **ind.** The Department may allow the use of other pump test protocols that are generally accepted by engineering firms with specialized experience in well construction, by the well drilling industry, or as described in national standards (such as ANSI/AWWA A100-97), as long as the minimum data specified in Subsection 550.03.f.iii 510.06.c. are provided. The Department welcomes more extensive data about the well, such as step-drawdown evaluations used in determining well capacity for test pumping purposes, zone of influence calculations, and any other information that may be of use in source protection activities or in routine water system operations.

(5-3-03)(Where aquifer yield, sustainability, or water quality are questionable, the Department, at its discretion, may require additional site specific investigations that could include test well construction, long-term pumping tests, or other means to demonstrate that the aquifer is sufficient to meet the long-term water requirements of the project. 07. Conversion of Irrigation Wells for Public Water System Use. An irrigation well may be considered for use as a public water system source on a case-by-case basis. The owner of such a well must demonstrate to the Department's satisfaction that the well is constructed in a manner that is protective of public health and that both the quantity and quality of water produced by the well meet public water system standards set forth in these rules. Observation Wells. If observation wells are used and are intended to remain in service after completion of the water supply well, the observation wells shall be constructed in accordance with the requirements for permanent wells and be protected at the upper terminal to preclude entrance of foreign materials. See Rules of the Idaho Water Resources Board referenced in Subsection 002.02. Well Abandonment. Any water supply well that will no longer be used must be abandoned by sealing the borehole carefully to prevent pollution of the ground water, eliminate any physical hazard, conserve aquifer yield, maintain confined head conditions in artesian wells, and prevent mixing of waters from different aquifers. The objective of proper well abandonment procedures is to restore, as far as possible, the original hydrogeologic conditions. The services of a licensed well driller are required. Instructions for abandoning various types of wells may be obtained from the Idaho Department of Water Resources. See Rules of the Idaho Water Resources Board referenced in Subsection 002.02. FACILITY AND DESIGN STANDARDS - WELL PUMPS, DISCHARGE PIPING, AND APPURTENANCES. Sample Tap Required. A smooth-nosed sample tap shall be provided on the discharge piping from every well at a point where pressure is maintained but prior to any treatment. Any threaded taps installed in the wellhouse must be equipped with an appropriate backflow prevention device. (5-3-03)() h02. Discharge Piping. The discharge line shall be equipped with the necessary valves and appurtenances to allow a well to be pumped to waste at the design capacity of the well via an approved air gap at a location prior to the first service connection, and shall meet the following requirements: (4-6-05)(Be designed to minimize friction loss. <u>a.</u> Have control valves and appurtenances located above the pump house floor when an above-ground discharge is provided. Be protected against contamination. <u>c.</u> Vertical turbine pumps shall be equipped with an air release-vacuum relief valve, or equivalent, located upstream from the check valve, with exhaust/relief piping terminating in a down-turned position at least eighteen (18) inches above the floor and covered with a twenty-four (24) mesh corrosion resistant screen. Have all exposed piping, valves and appurtenances protected against physical damage and freezing. <u>e.</u> Be properly anchored to prevent movement, and protected against surge or water hammer. <u>f.</u>

*i*03.

Pressure Gauge Required. A pressure gauge shall be provided at all installations.

(12-10-92)(

- Flow Meter and Check Valve. Unless otherwise approved by the Department, A an instantaneous and totalizing flow meter equipped with nonvolatile memory shall be installed on the discharge line of each well. An accessible check valve shall be installed above ground in the discharge line of each well. (5-3-03)(_____)
- **<u>k05.</u>** Well Vent. All wells except flowing artesian wells shall be vented, unless it can be demonstrated that the drawdown under maximum pumping conditions will not exceed ten (10) feet, with the open end of the vent screened and terminated downward at least eighteen (18) inches above the final ground surface. (4-6-05)(____)
- <u>Mo6.</u> <u>Casings and Sanitary Well Caps.</u> The following requirements apply to well casings and <u>seals</u> (12-10-92)(_____)
- **†a.** Casings shall extend a minimum of eighteen (18) inches above the final ground surface and, if the well is located within a *well* pump house, twelve (12) inches above the *well* pump house floor. If local hydrological conditions require that a well be located in an area subject to flooding, the Department may require extension of the casing to extend above the one hundred (100) year or highest known flood level.

 (4-6-05)(____)
- iii. A watertight seal shall be provided at the top of the well casing, and shall not allow water to enter the well.

 (12-10-92)
- iv. Wells completed in unconsolidated water bearing formations shall be constructed to prevent caving of the walls of the well and sand pumping. Screens and/or gravel packs shall be provided where fine grained materials such as sands are being developed as the source of water.

 (12-10-92)
- m07. The following requirements apply to well houses as defined in Section 003, unless it can be shown that some or all of these requirements are not needed to protect the combination of system components in a given structure: Well Houses. For regulatory purposes, a well house is considered a pump house as defined in Section 003. Well houses must meet the requirements for pump houses as set forth in Section 541.
- i. Well houses shall be protected from flooding and be adequately drained. The floor surface shall be at least six (6) inches above the final ground surface. An electrically powered ventilation fan or automated air flow system shall be provided to remove excess heat and moisture during peak summer temperatures. If the well operates year round, a thermostatically regulated heater shall also be installed to prevent moisture buildup during cold weather. In all cases, measures must be taken to minimize corrosion of metallic and electrical components. (4-6-05)
- ii. Well houses shall be provided with a locking door or access to prohibit unauthorized entrance. Plans and specifications for well houses must provide enough detail to enable the reviewing engineer to determine that the facility is secure, safe, accessible, and that it conforms to electrical and plumbing codes.

 (5-3-03)
- iii. Well houses shall be kept clean and in good repair and shall not be used to store toxic or hazardous (12-10-92)
- iv. Floor drains shall not be connected to sewers, storm drains, chlorination room drains, or any other source of contamination. (12-10-92)
 - v. Sumps for well house floor drains shall not be closer than thirty (30) feet from the well. (12-10-92)
 - vi08. Pitless Adapters and Units. Pitless adapters or pitless units: (12-10-92)(
- (1) a. Shall be of the type marked approved by the National Sanitation Foundation or Pitless Adapter Division of the Water Systems Council. (12-10-92)
- (2)b. Shall be designed, constructed and installed to be watertight including the cap, cover, casing extension and other attachments. (12-10-92)

		Shall be field tested for leaks before being put into service. The procedure outlined in "Mar Non-Public Water Supply Systems," <i>as set forth</i> referenced in Subsection 002.02.d., or yed by the Department shall be followed.	r other
settling s threads.	soils in tl	Pitless adapters with a two (2) inch or smaller discharge line shall be provided with a swin as adapter unit to reduce strain, deformation, and possible leakage of the pitless seal cause the trench. The orientation of swing joints shall be such that any settling that occurs will tight in the casing shall be cut with a saw rather than a torch with an opening large enough to s.	sed by ten the
	<u>e.</u>	Shall be provided with a contamination-proof entrance connection for electrical cable.	()
	<u>f.</u>	In the case of pitless adapters:	()
		Threaded adapters shall be installed by drilling a hole not more than one quarter (1/4) inchumeter of the pitless shank. No torch-cut holes shall be accepted. The orientation of swing joint settling that occurs will tighten the threads.	
	<u>ii.</u>	The only field welding permitted will be that needed to connect a pitless adapter to the casin	<u>g.</u> ()
	g.	In the case of pitless units:	()
	<u>i.</u>	Shall be shop-fabricated from the point of connection with the well casing to the unit cap or	cover.
casing.	<u>ii.</u>	Shall be constructed of materials and weight at least equivalent to and compatible with the	ne well
accepted	l. If the c	Shall be threaded or welded to the well casing. Threaded units shall be installed by drilling the quarter (1/4) inch larger than the outer diameter of the pitless shank. No torch-cut holes shonnection to the casing is by field weld, the shop-assembled unit must be designed specification that casing.	hall be
100-year Departm		Shall terminate at least eighteen (18) inches above final ground elevation or three (3) feet above or the highest known flood elevation, whichever is higher, or as otherwise approved	
	<u>v.</u>	Shall be provided with access to disinfect the well.	()
mechani	<u>vi.</u> cal joint	Shall have field connection to the lateral discharge from the pitless unit of threaded, flang connection.	ged, or
this requinstallati	ion is co	Wells Not Allowed in Pits. Wells shall not be located in pits. Exceptions to Subsection 55 will be granted by the Department if the well was constructed prior to November 5, 1964, a postructed or reconstructed in accordance with the requirements of the Department to puction of pit walls and floors, floor drains and acceptable pit covers. (12-10-92)	and the provide
	<u>10.</u>	Discharge Pumps. Discharge pumps shall be subject to the following requirements:	()
	<u>a.</u>	Line shaft pumps shall.	()
<u>extendin</u>	<u>i.</u> ig at least	Have the casing firmly connected to the pump structure or have the casing inserted into a tone-half (1/2) inch into the pump base.	recess
	<u>ii.</u>	Have the pump foundation and base designed to prevent water from coming into contact w	ith the

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joint.		<u>()</u>
<u>iii.</u>	Use lubricants that meet ANSI/NSF Standard 61.	<u>()</u>
<u>b.</u>	When a submersible pump is used:	<u>()</u>
<u>i.</u> of vibration or	The top of the casing shall be effectively sealed as movement of conductors or cables.	gainst the entrance of water under all conditions
<u>ii.</u> less, or at each	The electrical cable shall be firmly attached to the coupling or joint.	e drop pipe at twenty-one (21) foot intervals or
owned in fee s	A well lot shall be provided for wells constructed imple by the supplier of water or controlled by lease on and be large enough to provide a minimum distance of	after November 1, 1977. The well lot shall be easement with a term of not less than the useful
a minimum of source out of s the system or n be "substantia	New community water systems served by ground unity water systems served by ground water that are statwo (2) sources if they are intended to serve more that service, the remaining source or sources shall be capa naximum daily pumping demand plus equalization storally modified" when there is a combined increase of a configuration in the following factors:	ubstantially modified after July, 2002, shall have to twenty five (25) homes or equivalent. With any ble of providing either the peak hour demand of rage. The Department shall consider a system to
i.	Population served or number of service connection	us; (5-3-03)
ii.	Length of water mains;	(5-3-03)
iii.	Peak or average water demand per connection.	(5-3-03)
q<u>01</u>. well lot withou	<u>Use of Chemicals on the Well Lot.</u> No pesticide at prior approval from the Department.	s, herbicides, or fertilizers shall be applied to a (12-10-92)()
r02. containers of p well lot, excep	Storage of Hazardous Materials on the Well Lopetroleum products, or other materials known to be to that:	
<i>i</i> a. to provide fire	An internal combustion engine to drive either a ger flows, and an associated fuel tank, may be placed on t	
<i>ii</i> <u>b</u> .	A propane or natural gas powered generator is pref	erable to reduce risk of fuel spillage. (5-3-03)
both spill prev the structural b	If a diesel or gasoline-fueled engine is used, the furiter's Laboratory, Inc., double-walled, meet the requirement of and overfill protection features. The tank must base of the generator unit. A licensed water system operiod of usage, or during periodic extraction and replace	rements of the local fire jurisdiction, and include be above ground and may be contained within erator shall be present during filling of the tank
<i>iv</i> d. <u>pump</u> house sh the floor drain	Should the internal combustion engine be located valued by the constructed so as to contain all petroleum drips (s). Engine exhaust shall be directly discharged outside	and spills so that they will not be able to reach
ν <u>e</u> . hundred ten pe	A spill containment structure shall surround all fercent (110%) of the fuel tank volume. The Department	fuel tanks and be sized to contain at least one t may require additional containment capacity in

settings where accumulation of snow, ice, or rain water could be expected to diminish the usable capacity of the structure. (4-6-05)

O3. Location of Hydrants. Hydrants of the frost free type shall be placed in the buried piping system at a minimum of five (5) feet away from the well casing to prevent drain water from accumulating and/or compromising the grout seal surrounding the well casing.

513. FACILITY AND DESIGN STANDARDS - NUMBER OF GROUND WATER SOURCES REQUIRED.

New community water systems served by ground water and constructed after July 1, 1985, or existing community water systems served by ground water that are substantially modified after July, 2002, shall have a minimum of two (2) sources if they are intended to serve more than twenty-five (25) homes or equivalent. Under normal operating conditions, with any source out of service, the remaining source or sources shall be capable of providing either the peak hour demand of the system or peak daily pumping demand plus equalization storage. For the purpose of Section 513 only, the Department shall consider a system to be "substantially modified" when there is a combined increase of twenty-five percent (25%) or more above the system's existing configuration in the following factors:

- <u>01.</u> <u>Population Served or Number of Service Connections.</u>
- 02. Length of Water Mains.
- <u>03.</u> <u>Peak or Average Water Demand Per Connection.</u>

514. FACILITY AND DESIGN STANDARDS - SPRING SOURCES.

- 94. Springs. Written approval by the Department is required before water from any new or reconstructed spring source may be served to the public. For new spring sources, the Department may require a site evaluation report as set forth for wells in Subsection 550.03.a 510. Any supplier of water for a public water system served by one (1) or more springs shall ensure that the following requirements are met:
- **<u>#01.</u>** Protection of the Spring. Springs shall be housed in a permanent structure and protected from contamination including the entry of surface water, animals, and dust: The spring box shall be equipped with a screened overflow. The inlet shall be screened and located above the floor of the collection chamber.

(12-10-92)(____)

- <u>**02.**</u> Access to Spring Box. A watertight and locking access port shall be provided. The access port shall be elevated at least twenty-four (24) inches above the top of the box or covering sod, whichever is higher.
 - **<u>b03.</u>** Sample Tap Required. A sample tap shall be provided.

(12-10-92)()

<u>e04.</u> Flow Measurement. A flow meter or other flow measuring device shall be provided; and.

(12-10-92)(____)

<u>#04.</u> Protected Area. The entire area within a one hundred (100) foot radius of the spring box shall be owned by the supplier of water or controlled by a long term lease, fenced to prevent trespass of livestock and void of buildings, dwellings and sources of contamination. Surface water *and drainage ditches* shall be diverted from this area.

(5-3-03)(_____)

515. FACILITY AND DESIGN STANDARDS - SURFACE SOURCES AND GROUND WATER SOURCES UNDER THE DIRECT INFLUENCE OF SURFACE WATER.

95. Surface Sources and Groundwater Sources Under the Direct Influence of Surface Water. Written approval by the Department is required before water from any new surface source or ground water source that is under the direct influence of surface water may be served to the public. Infiltration collection lines or galleries are considered ground water under the direct influence of surface water unless demonstrated otherwise. Infiltration galleries that are not directly influenced by surface water shall meet the requirements of Section 514. The area around

<u>infiltrati</u>	on lines s	shall be under the control of the water purveyor for a distance acceptable to the Department. (10-1-93)) ()
	<u>01.</u>	Intake Structures. Design of intake structures shall provide for:	()
	<u>a.</u>	Withdrawal of water from more than one (1) level if quality varies with depth.	()
	<u>b.</u>	Separate facilities for release of less desirable water held in storage.	()
crystals	that are	Where frazil ice may be a problem, holding the velocity of flow into the intake structually not to exceed point five (0.5) feet per second. Frazil ice is made up of randomly distributed in flowing water that has cooled below thirty-two (32) degrees Fahrenheit and is presoned in the movement of the water.(ited ice
inspecti	<u>d.</u> on.	Inspection manholes every one thousand (1000) feet for pipe sizes large enough to permit	t visual
	<u>e.</u>	Cleaning the intake line as needed.	()
	<u>f.</u>	Adequate protection against rupture by dragging anchors, ice, or other hazards.	()
kept sut	g. omerged a	Ports located above the bottom of the stream, lake or impoundment, but at sufficient dept at low water levels.	h to be
<u>or debri</u>	<u>h.</u> s from en	Where shore wells are not provided, a diversion device capable of keeping large quantities atering an intake structure.	of fish
aquatic	<u>i.</u> organism	If necessary, provisions shall be made in the intake structure to control the influx of necessary, provisions shall be made in the intake structure to control the influx of necessary, provisions shall be made in the intake structure to control the influx of necessary, provisions shall be made in the intake structure to control the influx of necessary, provisions shall be made in the intake structure to control the influx of necessary.	uisance ()
minimiz collecto	j. ze inlet h r pipe slo	When buried surface water collectors are used, sufficient intake opening area must be proveedloss. Particular attention shall be given to the selection of backfill material in relation at size and gradation of the native material over the collector system.	rided to to the ()
	<u>02.</u>	Raw Water Pumps. Raw water pumping wells shall:	()
protecte	a. d from fl	Have motors and electrical controls located above grade (except for submersible pump ooding as required by the reviewing authority.	s), and ()
	<u>b.</u>	Be accessible and designed to prevent flotation.	()
	<u>c.</u>	Be equipped with removable or traveling screens before the pump suction well.	()
necessa	d. ry for qua	Provide for introduction of chlorine or other chemicals in the raw water transmission rality control.	main if
device a	e. and testin	Where practical, have intake valves and provisions for back flushing or cleaning by a mec g for leaks.	hanical ()
	<u>f.</u>	Have provisions for withstanding surges where necessary.	()
water is off-strea	03. pumped am raw w	Offstream Raw Water Storage. An off-stream raw water storage reservoir is a facility into during periods of good quality and high stream flow for future release to treatment facilities rater storage reservoirs shall be constructed to assure that:	
	<u>a.</u>	Water quality is protected by controlling runoff into the reservoir.	()

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<u>b.</u>	Dikes are structurally sound and protected against wave action and en	rosion. ()
<u>c.</u>	Intake structures and devices meet requirements of Subsection 515.0	<u>()</u>
<u>d.</u>	Point of influent flow is separated from the point of withdrawal.	()
<u>e.</u>	Separate pipes are provided for influent to and effluent from the reservation	voir. ()
<u>04.</u>	Reservoirs. Impoundments and reservoirs shall provide, where applied	cable: ()
<u>a.</u>	Removal of brush and trees to high water elevation.	()
<u>b.</u>	Protection from floods during construction.	()
<u>c.</u> Department of	Abandonment of all wells which will be inundated, in accordance we few Water Resources. See Rules of the Idaho Water Resources Board references.	
<u>516 517.</u>	(RESERVED).	
WATER TR Performance Regulations, with applical	EILITY AND DESIGN STANDARDS - ADDITIONAL DESIGN CEATMENT. criteria for surface water treatment facilities are specified in Nation as set forth in Sections 300, 301, and 310 of these rules. Surface water treatment design requirements in Section 503. In addition, the following surface water treatment facilities:	nal Primary Drinking Water eatment systems must comply
a.	Design Criteria.	(12-1-92)
operated in a	Engineering Design Requirements. The system shall ensure the surface water or groundwater directly influenced by surface water sources occordance with all applicable engineering practices designated by the Designated must consider the worst raw water quality conditions that are like	are designed, constructed and epartment. The design of the
	Removal of Pathogens. Filtration facilities (excluding disinfection) to achieve at least two (2) log removal of Giardia lamblia cysts, two (2) log one (1) log removal of viruses, except as allowed under Subsection 550.05	g removal of Cryptosporidium
iii <u>03</u> least <i>one hal</i> j	Disinfection. Disinfection facilities shall be designed, constructed an point five zero (0.50) log inactivation of Giardia lamblia cysts; and	d operated so as to achieve at (10-1-93)()
(1) a	Two (2) log inactivation of viruses if using conventional and slow sar	nd filtration technology; or (12-10-92)
(2) <u>b</u>	Three (3) log inactivation of viruses if using direct and diatomaceous	earth filtration technology; or (12-10-92)
(3) c	Four (4) log inactivation of viruses if using alternate filtration technology	logy. (12-10-92)
(4) d	Four (4) log inactivation of viruses if filtration treatment is not used.	(10-1-93)
iv 04 516.03 may l	Enhanced Disinfection. Higher levels of disinfection than specified the required by the Department in order to provide adequate protection again	

Filter to Waste. For plants constructed after December 31, 1992, each filter unit must be capable of filter to waste. For plants constructed prior to December 31, 1992, each filter unit must be capable of filter to waste unless the system demonstrates through continuous turbidity monitoring or other means acceptable to the Department that water quality is not adversely affected following filter backwashing, cleaning or media replacement. (12-10-92)(For plants constructed prior to December 31, 1992, each filter unit must be capable of filter to vi. waste unless the system demonstrates through continuous turbidity monitoring or other means acceptable to the Department that water quality is not adversely affected following filter backwashing, cleaning or media replacement. (12-10-92)Continuous Turbidity Monitoring. For conventional, direct, membrane, and diatomaceous earth filtration technology, equipment must be provided to continuously measure the turbidity of each filter bed unit. viii07. Continuous Monitoring of Disinfectant. Equipment must be provided and operated for continuous measurement of disinfectant residual prior to entry to the distribution system, unless the system serves fewer than three thousand three hundred (3,300) people. (12-10-92)(Continuous Operation Required. Diatomaceous earth filtration facilities shall include an alternate power source with automatic startup and alarm, or be designed in a manner to ensure continuous operation. (12-10-92)(Filtration technology Acceptable Technology. The purveyor shall select a filtration technology *b*09. acceptable to the Department. (12-10-92)The purveyor shall select a filtration technology acceptable to the Department. (12-10-92)i. iiα. Conventional, direct, membrane, slow sand and diatomaceous earth filtration technologies are generally acceptable to the Department on a case-by-case basis. (5-3-03)Alternate filtration technologies may be acceptable if the purveyor demonstrates all of the iiib. following to the satisfaction of the Department: (12-10-92)(1)i. That the filtration technology: (12-10-92)Is certified and listed by the National Sanitation Foundation (NSF) under Standard 53, Drinking (a1)Water Treatment Units - Health Effects, as achieving the NSF criteria for cyst reduction; or Removes at least ninety-nine percent (99%) (two (2) logs) of Cryptosporidium oocysts or surrogate particles and removes or inactivates at least ninety-nine percent (99%) percent (two (2) logs) of Giardia lamblia cysts or Giardia lamblia cyst surrogate particles in a challenge study acceptable to the Department. (12-10-92)(Using Based on field studies or other means acceptable to the Department, it must be demonstrated that the filtration technology has the following capabilities: (12-10-92)(

(b2) Meets the turbidity performance requirements of 40 CFR 141.73 (b). (12-10-92)

In combination with disinfection treatment, consistently achieves at least ninety-nine percent (99%)

e10. Pilot Studies. The system shall conduct pilot studies in accordance with the following requirements for all proposed filtration facilities and structural modifications to existing filtration facilities, unless the Department modifies the requirements in writing: (12-10-92)

(two (2) logs) removal of Cryptosporidium oocysts or surrogate particles and at least ninety-nine and nine tenths percent (99.9%) (three (3) logs) removal or inactivation of Giardia lamblia cysts and ninety-nine and ninety-nine

hundredths percent (99.99%) (four (4) logs) removal or inactivation of viruses; and

(5-3-03)()

construc	# <u>a</u> . ted and b	The system shall obtain the Department's approval of the pilot study plan before the pilot study is undertaken.	lot filter is (12-10-92)
engineer	<i>ij<mark>b.</mark></i> :	The design and operation of the pilot study shall be overseen by an Idaho licensed production (12-10-	rofessional -92) ()
	<i>iii</i> c ∙	The system's pilot study plan shall identify at a minimum:	(12-10-92)
	(1) i.	The objectives of the pilot study;	(12-10-92)
	(2) ii.	Pilot filter design;	(12-10-92)
	(3) iii.	Water quality and operational parameters to monitor;	(12-10-92)
	(4) <u>iv.</u>	Amount of data to collect; and	(12-10-92)
	(5) v.	Qualifications of the pilot plant operator.	(10-1-93)
	<i>i</i> ₩ d .	The system shall ensure that the pilot study is:	(12-10-92)
	(1) i.	Conducted to simulate conditions of the proposed full-scale design;	(12-10-92)
Departm	(2) <u>ii.</u> nent;	Conducted for at least twelve (12) consecutive months or for a shorter period upon appro-	oval by the (5-3-03)
treatmen	(3) <u>iii.</u> nt criteria	Conducted to evaluate the reliability of the treatment system to achieve applicable was specified for filtration systems in 40 CFR 141.72 and 40 CFR 141.73; and	ter quality (12-10-92)
acceptab	(4)iv. ole to the	Designed and operated in accordance with good engineering practices documented in Department.	references (12-10-92)
		New Redundant Disinfection. Surface water systems constructed after July 1, 1985, are ant disinfection components or maintain a backup unit on site as required to maintain sinfectant whenever water is being delivered to the distribution system.	n constant
519.		TTY AND DESIGN STANDARDS - SURFACE WATER TREATMENT;	DESIGN
A micro	screen m	OR MICROSCREENING. The property of the proper	n place of ()
	<u>01.</u>	Design Considerations. The following shall be taken into account during design:	<u>()</u>
	<u>a.</u>	The nature of the suspended matter to be removed.	()
	<u>b.</u>	The corrosiveness of the water.	()
	<u>c.</u>	The effect of chlorination, when required as pre-treatment.	()
	<u>d.</u>	The duplication of units for continuous operation during equipment maintenance.	()
	<u>e.</u>	Automated backflushing operation when used in conjunction with microfiltration treatments	<u>ent.</u> ()
	<u>02.</u>	Design Requirements. Design shall provide the following:	()
	<u>a.</u>	A durable, corrosion-resistant screen.	<u>()</u>

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<u>b.</u> <u>A by-pass arrangement.</u>	<u>()</u>
<u>c.</u> <u>Protection against back-siphonage when potable water is u</u>	used for washing. ()
<u>d.</u> Proper disposal of water used to wash the microscreen.	()
520. FACILITY AND DESIGN STANDARDS - SUCLARIFICATION PROCESSES. Treatment facilities designed to include clarification for processing successing successions.	_
requirements:	<u>()</u>
<u>O1.</u> <u>Sedimentation.</u> <u>Two Units Required.</u> A minimum of two (2) units s	shall be provided for flocculation and ()
<u>02.</u> <u>Parallel or Serial Operation</u> . The units shall be capab parallel where softening is performed.	ele of being operated either in series or
<u>03.</u> <u>Independent Units.</u> The units shall be constructed in su service without disrupting operation, and with drains or pumps sized to allotime.	
Manual Start-Up . The units shall be started manually follows:	lowing shutdown. ()
with or without the addition of coagulation chemicals. When presed requirements must be met:	
-	
a. Incoming water shall be dispersed across the full width of Short circuiting must be prevented.	the line of travel as quickly as possible.
<u>b.</u> <u>Provisions for bypassing pre-sedimentation basins shall be</u>	e included. ()
Rapid Mix. Rapid mix shall mean the rapid dispersion of treated, usually by violent agitation. The engineer shall submit the design leads to the shall shall be shall submit the design leads to the shall shall be shall shall shall be shall shall be shall shall be shall shall shall be shall shall be shall shall be shall shall shall be shall be shall shall be shall be shall shall be shall shall be	
selected, considering the chemicals to be added and water temperature, parameters. Basins or mixing chambers shall be equipped with devices capa treatment flow rates.	color and other related water quality
<u>Plocculation.</u> Flocculation shall mean the gathering toge mixing after the addition of coagulant chemicals to form larger particles.	ether of fine particles in water by gentle
<u>a.</u> Basin inlet and outlet design shall minimize short-circuiting pumps shall be provided to handle dewatering and sludge removal.	ng and destruction of floc. A drain and/or
b. The flow-through velocity shall not be less than one-half (1.5) feet per minute with a detention time for floc formation of at least thirty by the Department.	
c. Agitators shall be driven by variable speed drives.	<u>()</u>
<u>d.</u> <u>Flocculation and sedimentation basins shall be as close flocculated water through pipes or conduits to settling basins shall be not less and one-half (1.5) feet per second. Allowances must be made to minimi direction.</u>	s than one-half (0.5) nor greater than one
07. Small Systems May Use Baffling. Baffling may be used to upon approval by the Department.	o provide for flocculation in small plants

<u>08.</u>	Sedimentation Units. The following criteria apply to conventional sedimentation units:)
a. adequate settling	A minimum of two (2) hours of settling time shall be provided following flocculation us in less time can be demonstrated.	nless)
<u>b.</u>	Inlets shall be designed to distribute the water equally and at uniform velocities.)
submerged orific	Outlet weirs or submerged orifices shall maintain velocities suitable for settling in the basin circuiting. Outlet weirs shall be designed so that the rate of flow over the outlet weirs or through the submerged orifices shall not exceed one-half (0.5) feet per second.	h the
	The velocity through settling basins shall not exceed one-half (0.5) feet per minute. The basins short-circuiting. Fixed or adjustable baffles must be provided as necessary to ach stential for clarification.	
e. at a location whe	When an overflow weir or pipe is provided the overflow shall discharge by gravity with a free the discharge will be noted.	e fall)
<u>f.</u> basins must be p	Adequate sludge collection equipment that ensures proper basin coverage shall be provided rovided with a means for dewatering.	l and
g. devices acceptab	Flushing lines or hydrants shall be provided and must be equipped with backflow prever to the Department.	ntion)
	Sludge removal design shall provide that sludge pipes are not less than three (3) inches in dian as to facilitate cleaning. Entrance to sludge withdrawal piping shall be designed to prevent clogic made for the operator to observe and sample sludge being withdrawn from the unit.	
<u>i.</u>	Sludge shall be disposed of in accordance with applicable regulations, as set forth in Section 5	<u>340.</u>)
	Solids Contact Clarifiers. Solids contact clarifiers are generally acceptable for combarification where water characteristics, especially temperature, do not fluctuate rapidly, flow rate ration is continuous. A minimum of two (2) units are required for surface water treatment.	
a. chemicals with the	Chemicals shall be applied at such points and by such means as to ensure satisfactory mixing on the water.	of the
constructed so a	Unless otherwise approved by the Department, a rapid mix device or chamber ahead of the sais required to assure proper mixing of the chemicals applied. Mixing devices employed shars to provide good mixing of the raw water with previously formed sludge particles and precides in the mixing zone.	ill be
<u>c.</u> coagulation in a	Flocculation equipment shall be adjustable as to speed and/or pitch and must provide separate chamber or baffled zone within the unit.	e for
	Sludge removal design shall provide that sludge pipes are not less than three (3) inches in dian as to facilitate cleaning. Entrance to sludge withdrawal piping shall be designed to prevent clogge made for the operator to observe and sample sludge being withdrawn from the unit.	neter ging.
e. regard to control used to backflusl	Blow-off outlets and drains must terminate and discharge at places acceptable to the Departme of potential cross connections. Cross connection control must be included for the potable water h sludge lines.	
f.	The detention time shall be established on the basis of the raw water characteristics and other	local

conditions that affect the operation of the unit. The Department may request data to support derespect to detention times. The Department may alter detention time requirements.	ecisions made with
<u>Controls for sludge withdrawl which minimize water losses shall be provided.</u>	()
h. Unless otherwise approved by the Department, weirs shall be adjustable and at length to the perimeter of the tank. Weir loading shall not exceed ten (10) gallons per minute per for units used as clarifiers or twenty (20) gallons per minute per foot of weir length for units. Where orifices are used, the loading rates per foot of launder rates shall be equivalent to weir lo produce uniform rising rates over the entire area of the tank.	foot of weir length used for softening.
<u>i.</u> <u>Upflow rates shall not exceed one (1) gallon per minute per square foot of separation line for units used as clarifiers or one and three-quarters (1.75) gallons per minute per slurry separation line for units used as softeners. The Department may consider higher rates if provided.</u>	r foot of area at the
10. Settler Units. Settler units consisting of variously shaped tubes or plates installed and at an angle to the flow may be used for sedimentation following flocculation.	ed in multiple layers ()
a. Inlets and outlets shall be designed to maintain velocities suitable for settling minimize short-circuiting. Plate units shall be designed to minimize unequal distribution across the	
b. Drain piping from the settler units must be sized to facilitate a quick flush of the prevent flooding other portions of the plant.	e settler units and to
c. Although most units will be located within a plant, outdoor installations must freeboard above the top of settlers to prevent freezing in the units.	t provide sufficient ()
d. Water shall be applied to tube settlers at a maximum rate of two (2) gallons per foot of cross-sectional area for tube settlers, unless higher rates are justified through pilo demonstration studies.	
<u>e.</u> <u>Water shall be applied to plate settlers at a maximum plate loading rate of one-h minute per square foot, based on eighty (80) percent of the projected horizontal plate area.</u>	alf (0.5) gallons per
<u>f.</u> <u>Flushing lines shall be provided to facilitate maintenance and must be properlusckflow or back siphonage.</u>	ly protected against
11. High Rate Clarification. High rate clarification processes may be approved usatisfactory performance under on-site pilot plant conditions or documentation of full scale psimilar raw water quality conditions. Reductions in detention times and/or increases in weir logiustified. Examples of such processes include dissolved air flotation, ballasted flocculation, or clarification, and helical upflow.	lant operation with ading rates shall be
521. FACILITY AND DESIGN STANDARDS - SURFACE WATER TREATMEN' USING RAPID RATE GRAVITY FILTERS.	T: FILTRATION
<u>01.</u> <u>Pretreatment.</u> The use of rapid rate gravity filters shall require pretreatment coagulation, floculation, and sedimentation.	ent in the form of
<u>02.</u> <u>Rate of Filtration</u> . The filter rate must be proposed and justified by the des satisfaction of the Department prior to the preparation of final plans and specifications.	ign engineer to the
<u>Q3.</u> <u>Number of Units.</u> At least two (2) units shall be provided. Where only two (2) each shall be capable of meeting the plant design capacity (normally the projected maximum dapproved filtration rate. Where more than two (2) filter units are provided, the filters shall be capplant design capacity at the approved filtration rate with one (1) filter removed from service. We	aily demand) at the pable of meeting the

filtratio determi	n is prov	vided, the variable aspect of filtration rates, and the number of filters must be considered design capacity for the filters.	d when ()
	<u>04.</u>	Structure and Hydraulics. The filter structure shall be designed to provide for:	()
	<u>a.</u>	Vertical walls within the filter. There shall be no protrusion of the filter walls into the filter in	<u>nedia.</u> ()
	<u>b.</u>	Cover by superstructure with sufficient headroom to permit normal inspection and operation	<u>ı.</u>
	<u>c.</u>	Minimum depth of filter box of eight and one-half (8.5) feet.	()
	<u>d.</u>	Minimum water depth over the surface of the filter media of three (3) feet.	()
	<u>e.</u>	Trapped effluent to prevent backflow of air to the bottom of the filters.	()
	<u>f.</u>	Prevention of floor drainage to the filter with a minimum four (4) inch curb around the filter	<u>()</u>
	<u>g.</u>	Prevention of flooding by providing overflow.	()
	<u>h.</u>	Maximum velocity of treated water entering the filters of two (2) feet per second.	()
followi	i. ng lime-s	Cleanouts and straight alignment for influent pipes or conduits where solids loading is he oda softening.	avy, or
	<u>j.</u>	Washwater drain capacity to carry maximum flow.	()
<u>handrai</u>	<u>k.</u> ls or wall	Walkways around filters to be not less than twenty-four (24) inches wide and equipped with s.	ı safety ()
<u>potable</u>	<u>l.</u> water.	Construction so as to prevent cross connections and common walls between potable are	id non-
	<u>05.</u>	Washwater Troughs. Washwater troughs shall be constructed to have:	()
	<u>a.</u>	The bottom elevation above the maximum level of expanded media during washing.	()
	<u>b.</u>	A two (2) inch freeboard at the maximum rate of wash.	()
	<u>c.</u>	The top edge level and all at the same elevation.	()
	<u>d.</u>	Spacing so that each trough serves the same number of square feet of filter area.	()
	<u>e.</u>	Maximum horizontal travel of suspended particles to reach the trough not to exceed three (3	<u>) feet.</u>
	06. ental che eristics:	Filter Material. The media shall be clean silica sand or other natural or synthetic media from mical or bacterial contaminants, approved by the Department, and having the following the	ee from llowing ()
inches.	<u>a.</u>	A total depth of not less than twenty-four (24) inches and generally not more than thir	ty (30)
<u>millime</u>	<u>b.</u> eter to fift	An effective size range of the smallest material no greater than forty-five hundredths (0.4 y-five hundredths (0.55) of a millimeter.	5) of a

<u>c.</u> (1.65).	A uniformity coefficient of the smallest material not greater than one and sixty-five hundredths ()
	A minimum of twelve (12) inches of media with an effective size range no greater than forty-five 0.45) of a millimeter to fifty-five hundredths (0.55) of a millimeter and a specific gravity greater than g materials within the filter.
<u>e.</u>	Types of filter media are as follows:
<u>i.</u> basis of expe	Clean, crushed anthracite or a combination of anthracite and other media may be considered on the rimental data specific to the project. The anthracite shall have the following characteristics:
(1) millimeter w	Effective size of forty-five hundredths (0.45) of a millimeter to fifty-five hundredths (0.55) of a ith uniformity coefficient not greater than sixty-five hundredths (1.65) when used alone.
(2) uniformity co	Effective size of eight tenths (0.8) of a millimeter to one and two-tenths (1.2) millimeters with a pefficient not greater than one and eighty-five hundredths (1.85) when used as a cap.
	Effective size for anthracite used as a single media on potable ground water for iron and manganese a shall be a maximum of eight tenths (0.8) of a millimeter (effective sizes greater than this may be used upon onsite pilot plant studies or other demonstration acceptable to the Department).
<u>ii.</u>	Sand media shall have the following characteristics: ()
(1) millimeter.	Effective size of forty-five hundredths (0.45) of a millimeter to fifty-five hundredths (0.55) of a ()
(2)	Uniformity coefficient of not greater than one and sixty-five hundredths (1.65).
demonstrated	Larger size sand media may be allowed by the Department where full-scale tests have that treatment goals can be met under all conditions.
<u>iii.</u> or full-scale t	Granular activated carbon (GAC) as a single media may be considered for filtration only after pilot testing and with prior approval of the Department. The design shall include the following:
	The media must meet the basic specifications for filter media as given in Subsections 518.06.a. scept that larger size media may be allowed where full scale tests have demonstrated that treatment goals need all conditions.
(2) following the	There must be provisions for a free chlorine residual and adequate contact time in the water efilters and prior to distribution.
growth. (3)	There must be a means for periodic treatment of filter material for control of bacterial and other ()
<u>(4)</u>	Provisions must be made for frequent replacement or regeneration. ()
<u>iv.</u>	Other media will be considered based on experimental data and operating experience. ()
	A three (3) inch layer of torpedo sand shall be used as a supporting media for filter sand where ravel is used, and shall have an effective size of eight-tenths (0.8) millimeters to two (2.0) millimeters, nity coefficient not greater than one and seven-tenths (1.7).
vi. rounded silic (2.5) inches i	Gravel, when used as the supporting media, shall consist of cleaned and washed, hard, durable, a particles and shall not include flat or elongated particles. The coarsest gravel shall be two and one-half n size when the gravel rests directly on a lateral system and must extend above the top of the perforated

laterals. Not less than four (4) layers of gravel shall be provided in accordance with the size and depth distribution specified in the table below. Reduction of gravel depths and other size gradations may be considered upon justification to the reviewing authority for slow sand filtration or when proprietary filter bottoms are specified.

Size of Gravel	<u>Depth</u>
2 ½ to 1 ½ inches	5 to 8 inches
1 ½ to ¾ inches	3 to 5 inches
3/4 to 1/2 inches	3 to 5 inches
½ to 3/16 inches	2 to 3 inches
3/16 to 3/32 inches	2 to 3 inches

		()
<u>07.</u>	Filter Bottoms and Strainer Systems. Departure from the standards set out in Subsection	521.07
may be acceptable	e for high rate filters and for proprietary bottoms. Porous plate bottoms shall not be used when y clog them or with waters softened by lime. The design of manifold-type collection systems	ere iron
or manganese ma	ty clog them of with waters softened by filme. The design of manifold-type confection systems	(<u>)</u>
<u>a.</u>	Minimize loss of head in the manifold and laterals.	()
<u>b.</u>	Ensure even distribution of wash water and even rate of filtration over the entire area of the	filter.
<u>c.</u> about three-thous	Provide the ratio of the area of the final openings of the strainer systems to the area of the sandths (0.003),	filter at
d. openings.	Provide the total cross-sectional area of the laterals at about twice the total area of the	ne final
e. area of the lateral	Provide the cross-sectional area of the manifold at one and one-half (1.5) to two (2) times the cross-sectional area of the manifold at one and one-half (1.5) to two (2) times the cross-sectional area of the manifold at one and one-half (1.5) to two (2) times the cross-sectional area of the manifold at one and one-half (1.5) to two (2) times the cross-section at t	he total
<u>f.</u>	Lateral perforations without strainers shall be directed downward.	()
	Surface or Subsurface Wash. Surface or subsurface wash facilities are required except for for iron or manganese removal, and may be accomplished by a system of fixed nozzle oparatus. All devices shall be designed with:	
<u>a.</u>	Provision for water pressures of at least forty-five (45) pounds per square inch.	()
b. connected to the	A properly installed vacuum breaker or other approved device to prevent back siphor treated water system.	nage if
<u>c.</u> half (0.5) gallon j	Rate of flow of two (2.0) gallons per minute per square foot of filter area with fixed nozzles oper minute per square foot with revolving arms.	or one-
<u>d.</u>	Air wash can be considered based on experimental data and operating experiences.	()
09. conditions are me	Air Scouring. Air scouring can be considered in place of surface wash provided the folet:	lowing ()
<u>a.</u>	Air flow for air scouring the filter must be three (3) to five (5) standard cubic feet per minute	square

100t of filter are	a when the air is introduced in the underdrain; a lower air rate must be used when the air	r scour
<u>distribution syste</u>	m is placed above the underdrains.	()
<u>b.</u>	A method for avoiding excessive loss of the filter media during backwashing must be provided	led
<u>D.</u>	14 method for avoiding excessive loss of the filter media during backwashing must be provide	<u>()</u>
<u>c.</u>	Air scouring must be followed by a fluidization wash sufficient to restratify the media.	()
<u>d.</u>	Air must be free from contamination.	()
<u>e.</u>	Air scour distribution systems shall be placed below the media and supporting bed interface	
	ception: if placed at the interface the air scour nozzles shall be designed to prevent medi-	a from
clogging the noz	zles or entering the air distribution system.	<u>()</u>
f.	Piping for the air distribution system shall not be flexible hose which will collapse when not	t under
	shall not be a relatively soft material which may erode at the orifice opening with the passage	e of air
at high velocity.		()
~	Air delivery piping shall not pass down through the filter media nor shall there be any arrang	
g. in the filter desig	n which would allow short circuiting between the applied unfiltered water and the filtered wa	
in the inter desig	in which would allow short electring between the applied diffrience water and the intered wa	()
<u>h.</u>	The backwash water delivery system must be capable of fifteen (15) gallons per minute per	
	ace area (37 m/hr); however, when air scour is provided the backwash water rate must be vaceed eight (8) gallons per minute per square foot (20 m/hr) unless operating experience shows	
	essary to remove scoured particles from filter media surfaces.	<u>()</u>
ingher rate is nee	essary to remove seource particles from met media surfaces.	·
<u>i.</u>	The filter underdrains shall be designed to accommodate air scour piping when the pip	oing is
<u>installed in the u</u>	nderdrain.	()
<u>10.</u>	Filter Appurtenances. The following shall be provided for every filter:	()
<u>a.</u>	Influent and effluent sampling taps.	()
<u>b.</u>	A gauge capable of indicating loss of head.	()
<u>c.</u>		,
		on to a
maximum rate m	A meter indicating rate-of flow. A modified rate controller which limits the rate of filtrational be used. However, equipment that simply maintains a constant water level on the filters	is not
maximum rate macceptable, unles	A meter indicating rate-of flow. A modified rate controller which limits the rate of filtrational be used. However, equipment that simply maintains a constant water level on the filters the rate of flow onto the filter is properly controlled. A pump or a flow meter in each filter expression of the filter is properly controlled.	is not ffluent
maximum rate m acceptable, unles line may be used	A meter indicating rate-of flow. A modified rate controller which limits the rate of filtrational be used. However, equipment that simply maintains a constant water level on the filters	is not ffluent
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maximum rate macceptable, unles line may be used basis. 11. a. b. service main, or a c. d. e.	A meter indicating rate-of flow. A modified rate controller which limits the rate of filtrational to be used. However, equipment that simply maintains a constant water level on the filters is the rate of flow onto the filter is properly controlled. A pump or a flow meter in each filter eas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limiting device for the rate of filtration only if approved by the Department on a site-seas the limit	s is not ffluent pecific () () () ed. () ne high () () () () () () () () () (

can be e	<u>f.</u> easily reac	A rate-of-flow indicator, preferably with a totalizer, on the main wash water line, located so the operator during the washing process.	hat it)
<u>Automa</u>	g. ted syster	Design to prevent rapid changes in backwash water flow. Backwash shall be operator initins shall be operator adjustable.	ated.
<u>filters.</u>	<u>12.</u>	Roof Drainage. Roof drains shall not discharge into the filters or basins and conduits preceding	g the
<u>522.</u>		ITY AND DESIGN STANDARDS - SURFACE WATER TREATMENT: FILTRAT	<u>'ION</u>
The use	of these	MACEOUS EARTH. filters may be considered for application to surface waters with low turbidity and low bact	
		nd may be used for iron removal for ground waters providing the removal is effective and the value sanitary quality before treatment.	vater)
followin	01. ng conditi	Conditions of Use. Diatomaceous earth filters are expressly excluded from consideration foons:	<u>r the</u>)
	a.	Bacteria removal:)
	<u>b.</u>	Color removal; ()
	<u>c.</u>	Turbidity removal where either the gross quantity of turbidity is high or the turbidity exhibits	poor
<u>filterabi</u>	lity chara	cteristics; or (_)
	<u>d.</u>	Filtration of waters with high algae counts.)
		Treated Water Storage. Treated water storage capacity in excess of normal requirements shaw operation of the filters at a uniform rate during all conditions of system demand at or below on rate, and guarantee continuity of service during adverse raw water conditions without by-pas	w the
the syste			
<u>filtratio</u>	<u>03.</u> 1	Number of Units. The requirements of Subsection 518.03 shall apply to diatomaceous of	earth)
the tank	05. influent	Precoat . A uniform precoat shall be applied hydraulically to each septum by introducing a slur line and employing a filter-to-waste recirculation system.	<u>ry to</u>
the filter	06. r run is re	Body Feed. A body feed system to apply additional amounts of diatomaceous earth slurry duquired to avoid short filter runs or excessive head losses.	uring)
in the pi	a. lot plant	The rate of body feed is dependent on raw water quality and characteristics and must be determined to the rate of body feed is dependent on raw water quality and characteristics and must be determined to the rate of body feed is dependent on raw water quality and characteristics and must be determined to the rate of body feed is dependent on raw water quality and characteristics and must be determined to the rate of body feed is dependent on raw water quality and characteristics and must be determined to the rate of body feed is dependent on raw water quality and characteristics and must be determined to the rate of body feed is dependent on raw water quality and characteristics and must be determined to the rate of	nined)
	<u>b.</u>	Continuous mixing of the body feed slurry is required.)
	<u>07.</u>	<u>Filtration Requirements</u> . (_)
	<u>a.</u>	Rate of filtration shall be controlled by a positive means.)
<u>fifteen (</u>	<u>b.</u> 15) inche	Head loss shall not exceed thirty (30) psi for pressure diatomaceous earth filters, or a vacuus of mercury for a vacuum system.	<u>m of</u>
		A recirculation or holding pump shall be employed to maintain differential pressure across the not in operation in order to prevent the filter cake from dropping off the filter elements. A mining of one-tenth (0.1) gallon per minute per square foot of filter area shall be provided.	

	The septum or filter elements shall be structurally capable of withstanding maximum presitations during filtration and backwash cycles, and shall be spaced such that no less than one (1)	sure and inch is
provided be	tween elements or between any element and a wall.	()
element.	The filter influent shall be designed to prevent scour of the diatomaceous earth from	the filter
<u>08.</u> provided.	Backwash. A satisfactory method to thoroughly remove and dispose of spent filter cake	shall be
<u>09.</u>	Appurtenances. The following shall be provided for every filter:	()
<u>a.</u>	Sampling taps for raw and filtered water.	()
<u>b.</u>	Loss of head or differential pressure gauge.	()
<u>c.</u>	Rate-of-flow indicator.	()
<u>d.</u>	A throttling valve used to reduce rates below normal during adverse raw water conditions.	()
<u>e.</u>	Evaluation of the need for body feed, recirculation, and any other pumps.	()
<u>f.</u>	Provisions for filtering to waste with appropriate measures for backflow prevention.	()
10. for plants tr	<u>Monitoring</u> . A continuous monitoring turbidimeter with recorder is required on each filter teating surface water.	r effluent ()
The use of method of f Water Syste	ACILITY AND DESIGN STANDARDS - SURFACE WATER TREATMENT: SLOW ION. these filters shall require prior engineering studies to demonstrate the adequacy and suitabilite filtration for the specific water supply. Slow Sand Filtration and Diatomaceous Earth Filtration from the specific water supply. Slow Sand Filtration and Diatomaceous Earth Filtration from the specific water supply. Slow Sand Filtration referenced in Subsection 002.02 dance in design of slow sand filtration facilities.	y of this for Small
turbidities of attributable	Quality of Raw Water. Slow rate gravity filtration shall be limited to waters having ment of ten (10) nephelometric units and maximum color of fifteen (15) units; such turbidity must to colloidal clay. Raw water quality data must include examinations for algae.	naximum st not be ()
approved fil	Number of Units. At least two (2) units shall be provided. Where only two (2) units are pose capable of meeting the plant design capacity (normally the projected maximum daily deman litration rate. Where more than two (2) filter units are provided, the filters shall be capable of men capacity at the approved filtration rate with one filter removed from service.	d) at the
for scraping	Structural Details and Hydraulics. Slow rate gravity filters shall be so designed as to pass otherwise approved by the Department, headroom to permit normal movement by operating page and sand removal operations, adequate access hatches and access ports for handling of sand filtration to waste, an overflow at the maximum filter water level, and protection from freezing.	ersonnel
water flow	Underdrains. Each filter unit shall be equipped with a main drain and an adequate nurdrains to collect the filtered water. The underdrains shall be so spaced that the maximum veloci in the underdrain will not exceed three-fourths (0.75) feet per second. The maximum spacing of ceed three (3) feet if pipe laterals are used.	ity of the
<u>05.</u>	Filter Material. The following requirements apply:	()

		OF ENVIRONMENTAL QUALITY or Public Drinking Water Systems	Docket No. 58-0108 Proposed Rulen	
	<u>a.</u>	Graded gravel layers beneath filter sand shall have a minimum depth	of thirty (30) inches.	()
hundred testing.	<u>b.</u> dths (0.35	The effective size shall be between fifteen hundredths (0.15) of of a millimeter. Larger sizes may be considered by the Department	a millimeter and thin t based on the results of	rty-five of pilot ()
	<u>c.</u>	The uniformity coefficient shall not exceed three point zero (3.0).		()
	<u>d.</u>	The sand shall be cleaned and washed free from foreign matter.		()
rebeddi is repla	ng shall ι	The sand shall be rebedded when scraping has reduced the bed deptered sand is to be reused in order to provide biological seeding and short utilize a "throw over" technique whereby new sand is placed on the support the new sand. The maximum filtration rate shall not exceed zee foot.	ening of the ripening poport gravel and existing	rocess,
feet of v	06. water ove	Depth of Water Over Filter Beds. The design shall provide a depth r the sand. Influent water shall not scour the sand surface.	of at least three (3) to	six (6)
Venturi filtratio	07. meter, on, and an	Control Appurtenances. Each filter shall be equipped with a loser other suitable means of discharge measurement installed on each effluent pipe designed to maintain the water level above the top of the	filter to control the	orifice, rate of
period u		Ripening. Slow sand filters shall be operated to waste after scraping of the effluent turbidity falls to consistently below the regulated drinking the strength of the consistent of the strength of the stren		
quick re	09. emoval of	Supernatant Drain Required. Filter beds shall be equipped with a water standing over sand that has become impermeable because it required.	supernatant drain to all uires scraping or rebed	low for lding.
Direct f floccula full sca reviewi direct fi	ATION. iltration, ation but a direct ng author iltration.	as used herein, refers to the filtration of a surface water following chen without prior settling. The nature of the treatment process will depend filtration plant shall not be constructed without prior pilot studies ity. In-plant demonstration studies are required where conventional treatwhere direct filtration is proposed, an engineering report shall be submidemonstration studies.	nical coagulation and p upon the raw water qui which are acceptable atment plants are conve	ossibly ality. A to the
	<u>01.</u>	Filtration Requirements.		()
		Filters shall be rapid rate gravity filters with dual or mixed media. Tot plant or in-plant demonstration studies, and all portions of Section d filters shall not be used.	The final filter design s 518 apply. Pressure fi	shall be lters or ()
compos	<u>b.</u> site filter (A continuous recording turbidimeter shall be installed on each fi effluent line.	lter effluent line and	on the
meterin	<u>c.</u> g to assis	Additional continuous monitoring equipment such as particle co t in control of coagulant dose may be required by the reviewing author		current ()
modific	02. cations of	<u>Siting Requirements</u> . The plant design and land ownership surroun the plant.	ding the plant shall all	low for ()

<u>525. -- 529.</u>

(RESERVED).

530. Disinfe		ITY AND DESIGN STANDARDS - DISINFECTION OF DRINKING WATER. be accomplished with gas and liquid chlorine, calcium or sodium hypochlorites, chlorine dio	oxide.
ozone, availab Wastew	or ultravi le and test vater," ref	olet light. Other disinfecting agents will be considered, providing reliable application equipmenting procedures for a residual are recognized in "Standard Methods for the Examination of Wate ferenced in Subsection 002.02, or an equivalent means of measuring effectiveness exists. of primary disinfection needed shall be specified by the Department. Consideration must be given	ent is er and . The
the form	nation of	disinfection by-products (DBP) when selecting the disinfectant. See Section 531, Facility D gn Standards for Chemical Application.	
	<u>01.</u>	<u>Chlorination.</u>)
	<u>a.</u>	Chlorination equipment shall meet the following requirements:)
provide	<u>i.</u> :d.	Solution-feed gas chlorinators or hypochlorite feeders of the positive displacement type mu	ist be
Spare p	<u>ii.</u> arts shall	Standby or backup equipment of sufficient capacity shall be available to replace the largest be made available to replace parts subject to wear and breakage.	unit.
not reas	<u>iii.</u> sonably co	Automatic proportioning chlorinators will be required where the rate of flow or chlorine demander of the constant.	and is
		Each eductor (submerged jet pump) must be selected for the point of application with partion the quantity of chlorine to be added, the maximum injector waterflow, the total discharge exter operating pressure, and the size of the chlorine solution line.	
rapid ar	<u>v.</u> nd thorouş	The chlorine solution injector/diffuser must be compatible with the point of application to prove the provided by the solution of application to prove the chlorine solution injector/diffuser must be compatible with the point of application to prove the chlorine solution injector of the chlorine solution injecto	vide a
	<u>b.</u>	Contact time and point of application requirements are as follows:)
to the Require	Departme ements for y be used	Contact time sufficient to achieve the inactivation of target pathogens under the expected rand temperature variation must be demonstrated through tracer studies or other evaluations accepted. Appendix E of EPA Guidance Manual for Compliance with the Filtration and Disinfer Public Water Systems Using Surface Water Sources, referenced in Section 002.02, contains the day and accepted to develop contact time requirements for specific target organisms and disinfecting can be added to new or existing basins to minimize short circuiting and increase contact time (otable ection tables etants.
Disinfe	ctant app	At plants treating surface water, except slow sand filtration systems, provisions shall be made infectant to the raw water, settled water, filtered water, and water entering the distribution systems equipment shall be controlled by a flow sensing device so that injection of the disinfection when the flow of water stops.	stem.
disinfec	<u>iii.</u> ctant to th	At a minimum, at plants treating ground water, provisions shall be made for applying e detention basin inlet and water entering the distribution system.	g the
treatme	nt plants	Chlorine residual test equipment recognized in the "Standard Methods for the Examination water," referenced in Subsection 002.02, shall be provided for use by the operator. All surface that serve a population greater that three thousand three hundred (3,300) must have equipment residuals continuously entering the distribution system.	water
	<u>d.</u>	Chlorinator piping requirements:)
contam	<u>i.</u> ination of	Cross connection protection: The chlorinator water supply piping shall be designed to protect the treated water supply by sources of questionable quality. At all facilities treating surface v	

	systems must be independent to prevent possible siphoning of partially treate upply to each eductor shall have a separate shut-off valve. No master shut-off valve.	
seamless steel tubing or or polyethylene, or other mate	s carrying elemental liquid or dry gaseous chlorine under pressure must be ther materials recommended by the Chlorine Institute (never use PVC). Registrials recommended by the Chlorine Institute must be used for chlorine solution and acceptable for any part of the chlorine solution piping system.	ubber, PVC,
	tion with Ozone. Systems that are required to maintain a disinfectant respelement ozone disinfection with a chemical disinfectant.	idual in the
<u>a.</u> The follo	wing are requirements for feed gas preparation:	()
include purchased liquid o separation; or temperature,	can be air, oxygen enriched air, or high purity oxygen. Sources of high puxygen conforming with AWWA Standard B-304; on site generation using conforming with AWWA Standard B-304; on site	cryogenic air
ii. Air comp	pression:	()
	oressors shall be of the liquid-ring or rotary lobe, oil-less, positive displacement screw compressors for larger systems.	nent type for
(2) The air of demand, provide the air floapacity.	compressors shall have the capacity to simultaneously provide for maxi low required for purging the desiccant dryers (where required) and allow	mum ozone for standby
	for the compressor shall be drawn from a point protected from rain, conden purces to minimize moisture and hydrocarbon content of the air supply.	sation, mist,
(4) A compre prior to the dryers to reduce	essed air after-cooler and/or entrainment separator with automatic drain shall e the water vapor.	be provided ()
of a break-down. A back-u	p air compressor must be provided so that ozone generation is not interrupted	in the event
<u>iii.</u> Air dryin	g:	()
prevent formation of nitric	-free and oil-free feed gas must be provided to the ozone generator. Dry gas is acid, to increase the efficiency of ozone generation and to prevent damage to tag to a maximum dew point of -76°F (-60°C) must be provided at the end of	the generator
	or high pressure systems may be accomplished using heatless desiccant dryerigeration air dryer in series with heat-reactivated desiccant dryers shall be use	
	ration dryer capable of reducing inlet air temperature to 40°F (4°C) shall be a systems. The dryer can be of the compressed refrigerant type or chilled water	
with pressure relief valves, unit and blowers. The size	reactivated desiccant dryers, the unit shall contain two (2) desiccant filled town two (2) four-way valves and a heater. In addition, external type dryers shall he of the unit shall be such that the specified dew point will be achieved during steen (16) hours while operating at the maximum expected moisture loading of the unit shall be such that the specified dew point will be achieved during steen (16) hours while operating at the maximum expected moisture loading of the unit shall be such that the specified dew point will be achieved during steen (16) hours while operating at the maximum expected moisture loading of the unit shall be such that the specified dew point will be achieved during steen (16) hours while operating at the maximum expected moisture loading of the unit shall be such that the specified dew point will be achieved during steen (16) hours while operating at the maximum expected moisture loading of the unit shall be such that the specified dew point will be achieved during steen (16) hours while operating at the maximum expected moisture loading of the unit shall be such that the specified dew point will be achieved during steen (16) hours while operating at the maximum expected moisture loading of the unit shall be such that the specified dew point will be achieved during the same of the unit shall be such that the specified dew point will be achieved during the same of the unit shall be such that the specified dew point will be achieved during the same of the unit shall be such that the specified dew point will be achieved during the same of the unit shall be such that the specified dew point will be achieved during the same of the unit shall be such that the same of the unit shall be such that the same of the unit shall be such that the same of the unit shall be same of the unit shall	nave a cooler g a minimum

(5) dryer breakdown	Multiple air dryers shall be provided so that the ozone generation is not interrupted in the even between the control of the c	vent of
(6) allow start-up wh	Each dryer shall be capable of venting "dry" gas to the atmosphere, prior to the ozone generated other dryers are "on-line".	ator, to
<u>iv.</u>	Air filters:	()
(1) and the dryers an	Air filters shall be provided on the suction side of the air compressors, between the air compressors and the ozone generators.	ressors (<u>)</u>
particulate type	The filter before the desiccant dryers shall be of the coalescing type and be capable of reniculates larger than 0.3 microns in diameter. The filter after the desiccant dryer shall be and be capable of removing all particulates greater than 0.1 microns in diameter, or smagenerator manufacturer.	of the
v. galvanized steel.	Piping in the air preparation system can be common grade steel, seamless copper, stainless s The piping must be designed to withstand the maximum pressures in the air preparation syste	
<u>b.</u>	The following requirements apply to the ozone generator:	()
<u>i.</u>	Capacity.	()
(1) pound at a maxim	The production rating of the ozone generators shall be stated in pounds per day and kW mum cooling water temperature and maximum ozone concentration.	hr per
be less than one (The design shall ensure that the minimum concentration of ozone in the generator exit gas w(1) percent (by weight).	vill not
(3) peak capacity for	Generators shall be sized to have sufficient reserve capacity so that the system does not oper extended periods of time resulting in premature breakdown of the dielectrics.	erate at
to determine prod	The production rate of ozone generators will decrease as the temperature of the coolant increasuration in the supply temperature of the coolant throughout the year, then pertinent data shall be duction changes due to the temperature change of the supplied coolant. The design shall ensure produce the required ozone at maximum coolant temperature.	e used
<u>(5)</u>	Appropriate ozone generator backup equipment must be provided.	()
ii. that the transform for ozone service	Electrical. The generators can be low, medium or high frequency type. Specifications shall represent the ners, electronic circuitry and other electrical hardware be proven, high quality components dec.	
iii. minimize corros treated, cross cor	Cooling. Adequate cooling shall be provided. The cooling water must be properly treation, scaling and microbiological fouling of the water side of the tubes. Where cooling water control shall be provided to prevent contamination of the potable water supply.	ated to
<u>iv.</u> 316L stainless st	Materials. To prevent corrosion, the ozone generator shell and tubes shall be constructed or eel.	f Type
<u>c.</u>	The following requirements apply to ozone contactors:	()
<u>i.</u>	Bubble diffusers.	
(1) equipped with ba	Where disinfection is the primary application, a minimum of two (2) contact chambers affles to prevent short circuiting and induce countercurrent flow shall be provided. Ozone shall be provided.	s each hall be

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applied using por	rous-tube or dome diffusers.	()
(2) by the Department	The minimum contact time shall be ten (10) minutes. A shorter contant if justified by appropriate design and "CT" considerations.	act time (CT) may be approved ()
(3) considered.	Where taste and odor control is of concern, multiple application p	points and contactors shall be ()
contactor must b	Contactors shall be separate closed vessels that have no common we kept under negative pressure and sufficient ozone monitors shall be	
	Contact vessels can be made of reinforced concrete, stainless stee able in the presence of residual ozone and ozone in the gas phase about of reinforced concrete, all reinforcement bars shall be covered with a princrete.	ove the water level. If contact
	Where necessary, a system shall be provided between the contactor as the air and return the other to the contactor or other location accepta sected to be excessive, then a potable water spray system shall be placed.	able to the reviewing authority.
(7) welds or ozone re	All openings into the contactor for pipe connections, hatchways, etc. esistant gaskets such as Teflon or Hypalon.	shall be properly sealed using ()
(8) and to confirm "Confirm"	Multiple sampling ports shall be provided to enable sampling of each CT" calculations.	n compartment's effluent water ()
(9) there will be no o	A pressure/vacuum relief valve shall be provided in the contactor a lamage to the destruction unit.	and piped to a location where ()
(10) contactor shall al	The depth of water in bubble diffuser contactors shall be a minimus so have a minimum of three (3) feet of freeboard to allow for foaming	
(11) contactor compan	All contactors shall have provisions for cleaning, maintenance and drument shall also be equipped with an access hatchway.	lrainage of the contactor. Each
(12)	Aeration diffusers shall be fully serviceable by either cleaning or rep	lacement. ()
ii. Department prov verified.	Other contactors, such as the venturi or aspirating turbine mixer contided adequate ozone transfer is achieved and the required contact time	
<u>d.</u>	The following requirements apply to ozone destruction units:	()
i. and air quality st	A system for treating the final off-gas from each contactor must be prandards. Acceptable systems include thermal destruction and thermal/	
<u>ii.</u>	The maximum allowable ozone concentration in the discharge is 0.1	ppm (by volume). ()
<u>iii.</u>	At least two (2) units shall be provided which are each capable of ha	ndling the entire gas flow.
<u>iv.</u>	Exhaust blowers shall be provided in order to draw off-gas from the contract of the contract o	contactor into the destruct unit.

<u>V.</u>	Catalysts must be protected from froth, moisture and other impurities which may harm the catalysts must be protected from froth, moisture and other impurities which may harm the catalysts must be protected from froth, moisture and other impurities which may harm the catalysts must be protected from froth, moisture and other impurities which may harm the catalysts must be protected from froth and the catalysts must be catalysts.	<u>atalyst.</u>
<u>vi.</u> maintenance.	The catalyst and heating elements shall be located where they can easily be reach	ed for
e. with 316L prefer	Piping materials: Only low carbon 304L and 316L stainless steels shall be used for ozone red.	service ()
<u>f.</u>	The following requirements apply to joints and connections:	()
<u>i.</u>	Connections on piping used for ozone service are to be welded where possible.	()
ii. resistant gaskets,	Connections with meters, valves or other equipment are to be made with flanged joints with such as Teflon or Hypalon. Screwed fittings shall not be used because of their tendency to lead to be used because of the lead to be used because of the lead to be used because of the lead to be used to be u	
iii. piping between t	A positive closing plug or butterfly valve plus a leak-proof check valve shall be provided the generator and the contactor to prevent moisture reaching the generator.	l in the
<u>g.</u>	The following requirements apply to instrumentation:	()
	Pressure gauges shall be provided at the discharge from the air compressor, at the inlet ers, at the inlet and outlet of the desiccant dryers, at the inlet to the ozone generators and conto the ozone destruction unit.	
<u>ii.</u> preset level.	Each generator shall have a trip which shuts down the generator when the wattage exceeds a	certain ()
	Dew point monitors shall be provided for measuring the moisture of the feed gas from the denere is potential for moisture entering the ozone generator from downstream of the unit or allation can occur in the generator during shutdown, post-generator dew point monitors shall be a shall	where
<u>iv.</u> other ozone gene	Air flow meters shall be provided for measuring air flow from the desiccant dryers to each erators, air flow to each contactor, and purge air flow to the desiccant dryers.	of the
v. inlet and outlet o cooling water.	Temperature gauges shall be provided for the inlet and outlet of the ozone cooling water a of the ozone generator feed gas and, if necessary, for the inlet and outlet of the ozone power	
vi. and, if necessary.	Water flow meters shall be installed to monitor the flow of cooling water to the ozone gen, to the ozone power supply.	erators ()
for monitoring o	Ozone monitors shall be installed to measure zone concentration in both the feed-gas and or and in the off-gas from the destruct unit. For disinfection systems, monitors shall also be prozone residuals in the water. The number and location of ozone residual monitors shall be sume that the water is in contact with the ozone residual can be determined.	ovided
	A minimum of one ambient ozone monitor shall be installed in the vicinity of the contactor shall be installed in the vicinity of the generator. Ozone monitors shall also be installed in an may accumulate.	
<u>h.</u>	Safety requirements are as follows:	()
i. exceed one-tenth	The maximum allowable ozone concentration in the air to which workers may be exposed material part per million (0.1 ppm) by volume.	ust not

within a	<u>ii.</u> cceptable	Noise levels resulting from the operating equipment of the ozonation system shall be controlled limits by special room construction and equipment isolation.	<u>ed to</u>
ozone ga	<u>iii.</u> as if leaka	Emergency exhaust fans must be provided in the rooms containing the ozone generators to renage occurs.	<u>10ve</u>)
plant. In	iv. addition	A sign shall be posted indicating "No smoking, oxygen in use" at all entrances to the treatre, no flammable or combustible materials shall be stored within the oxygen generator areas.	nent)
hydroge	n sulfide	Disinfection with Chlorine Dioxide. Chlorine dioxide may be considered as a primary tant, a pre-oxidant to control tastes and odors, to oxidize iron and manganese, and to control and phenolic compounds. When choosing chlorine dioxide, consideration must be given regulated by-products, chlorite and chlorate.	ntrol
		Chlorine dioxide generation equipment shall be factory assembled pre-engineered units wincy of ninety-five (95) percent. The excess free chlorine shall not exceed three (3) percent of iometric concentration required.	
	<u>b.</u>	Other design requirements include:)
	<u>i.</u>	The design shall comply with all applicable portions of Subsections 530.01.a. through 530.01.c. (<u>1.</u>
(mg/l), e	<u>ii.</u> even for s	The maximum residual disinfectant level allowed shall be zero point eight (0.8) milligrams per chort term exposures.	liter)
known t by-prod	iii. o the pubucts may	Notification of a change in disinfection practices and the schedule for the changes shall be nolic; particularly to hospitals, kidney dialysis facilities and fish breeders, as chlorine dioxide and have effects similar to chloramines.	
submitte	04. ed to the I	Other Disinfecting Agents. Proposals for use of disinfecting agents other than those listed shared Department for approval prior to preparation of final plans and specifications.	<u>ll be</u>)
<u>531.</u>	FACILI	ITY DESIGN STANDARDS - DESIGN STANDARDS FOR CHEMICAL APPLICATION	<u>l.</u>
	<u>01.</u>	General Equipment Design. General equipment design shall be such that:)
through	a. out the ra	Feeders will be able to supply, at all times, the necessary amounts of chemicals at an accurate nge of feed.	rate.
solution	<u>b.</u>	Chemical-contact materials and surfaces are resistant to the aggressiveness of the chem	nical)
	<u>c.</u>	Corrosive chemicals are introduced in such a manner as to minimize potential for corrosion.	
one (1) contain.		Chemicals that are incompatible are not stored or handled together. At facilities where more is stored or handled, tanks and pipelines shall be clearly labeled to identify the chemical (
	<u>e.</u>	All chemicals are conducted from the feeder to the point of application in separate conduits.)
	<u>f.</u>	Chemical feeders are as near as practical to the feed point.)
unless tv	g. wo fully i	Chemical feeders and pumps shall operate at no lower than twenty percent (20%) of the feed raindependent adjustment mechanisms such as pump pulse rate and stroke length are fitted when	

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pump s	hall opera	te at no lower than ten percent (10%) of the rated maximum.	<u>()</u>
	<u>02.</u>	Facility Design.	()
	a. essential al applied	Where chemical feed is necessary for the protection of the supply, suc processes, a minimum of two feeders shall be provided and a separate	
	<u>b.</u>	Chemical application control systems shall meet the following require	ements: ()
to allow	<u>i.</u> v override	Feeders may be manually or automatically controlled, with automatic by manual controls.	controls being designed so as
not con	<u>ii.</u> tinue whe	Chemical feeders shall be controlled by a flow sensing device so that the flow of water stops.	injection of the chemicals will ()
	<u>iii.</u>	Chemical feed rates shall be proportional to flow.	()
	<u>iv.</u>	A means to measure water flow must be provided in order to determine	ne chemical feed rates.
	<u>v.</u>	Provisions shall be made for measuring the quantities of chemicals us	<u>sed.</u> ()
fluoride	<u>vi.</u> solution	Weighing scales shall be provided for weighing cylinders at all feed.	plants utilizing chlorine gas.
	<u>vii.</u>	Shall be capable of providing reasonable precision in relation to average	age daily dose. ()
coagula	<u>viii.</u> ınt aid add	Where conditions warrant, for example with rapidly fluctuating in lition may be made according to turbidity, streaming current or other s	
		Dry chemical feeders shall measure chemicals volumetrically or graving agitation of the chemical in the solution pot, and completely to the operating room.	
maximı	d. um head c	Positive displacement type solution feed pumps must be capable conditions found at the point of injection.	of operating at the required ()
		Liquid chemical feeders shall be such that chemical solutions cannot by assuring discharge at a point of positive pressure, or providing or providing other suitable means or combinations as necessary.	
	<u>f.</u>	Cross connection control must be provided to assure that the following	ng requirements are satisfied.
require	<u>i.</u> d in Subse	The service water lines discharging to solution tanks shall be properlection 900.02 (Table 2).	ly protected from backflow as ()
chambe greater,	<u>ii.</u> er or tank above the	No direct connection exists between any sewer and a drain or overfly providing that all drains terminate at least six (6) inches or two e overflow rim of a receiving sump, conduit or waste receptacle.	low from the feeder, solution pipe diameters, whichever is ()
operation	<u>g.</u> on.	Chemical feed equipment shall be readily accessible for servicing	g, repair, and observation of
	<u>h.</u>	In-plant water supply for chemical mixing shall be:	()

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<u>i.</u>	Ample in quantity and adequate in pressure.	<u>()</u>
<u>ii.</u>	Provided with means for measurement when preparing specific solu	ntion concentrations by dilution.
<u>iii.</u>	Properly treated for hardness, when necessary.	<u>()</u>
<u>iv.</u>	Properly protected against backflow.	<u>()</u>
v. mixing.	Obtained from a location sufficiently downstream of any chemical	l feed point to assure adequate
<u>i.</u>	Chemical storage facilities shall satisfy the following requirements:	<u>()</u>
i. chemicals and n contamination.	Storage tanks and pipelines for liquid chemicals shall be spec ot used for different chemicals. Off-loading areas must be clearly labe	cified for use with individual eled to prevent accidental cross-
ii. transferred into	Chemicals shall be stored in covered or unopened shipping con an approved storage unit.	tainers, unless the chemical is
receiving basin	Liquid chemical storage tanks must have a liquid level indicator capable of receiving accidental spills or overflows without uncomay be provided for each group of compatible chemicals, that put accidental discharge in the event of failure of the largest tank.	entrolled discharge; a common
<u>i.</u>	Solution tanks shall comply with the following requirements:	<u>()</u>
<u>i.</u> tank to maintai suspension.	A means which is consistent with the nature of the chemical solution a uniform strength of solution. Continuous agitation shall be pr	
<u>ii.</u>	Means shall be provided to measure the liquid level in the tank.	()
<u>iii.</u> openings curbed	Chemical solutions shall be kept covered. Large tanks with account and fitted with overhanging covers.	cess openings shall have such
<u>iv.</u> assure positive d	Subsurface locations for solution tanks shall be free from sources brainage for ground waters, accumulated water, chemical spills and over	
v. with day tanks.	Acid storage tanks must be vented to the outside atmosphere, but	not through vents in common ()
vi. Subsection 900.	Each tank shall be provided with a valved drain, protected agains 02 (Table 2).	st backflow in accordance with
<u>vii.</u> failure, spillage	Solution tanks shall be located and protective curbings provided so or accidental drainage shall not enter the water in conduits, treatment	that chemicals from equipment or storage basins. ()
<u>k.</u>	Provisions shall be made for measuring quantities of chemicals used	d to prepare feed solutions.
<u>l.</u> atmosphere abov	Vents from feeders, storage facilities and equipment exhaust see grade and remote from air intakes.	shall discharge to the outside ()
and concentration	Chemicals. Chemical shipping containers shall be fully labeled to on, supplier name and address, and evidence of ANSI/NSF certification	include chemical name, purity on where applicable.

	<u>04.</u>	Safety Requirements for Chemical Facilities.	()
	<u>a.</u>	The following requirements apply to chlorine gas feed and storage rooms:	()
and prov	<u>i.</u> ted in suddided with exterior.	Each storage room shall be enclosed and separated from other operating areas. They shall be a manner that all openings between the chlorine room and the remainder of the plant are shall be doors equipped with panic hardware, assuring ready means of exit and opening outward only	sealed,
	<u>ii.</u>	Each room shall be provided with a shatter resistant inspection window installed in an interio	<u>r wall.</u>
		Each room shall have a ventilating fan with a capacity which provides one (1) complete air of the room is occupied. Where this is not appropriate due to the size of the room, a lesser rate repartment on a site specific basis.	
		The ventilating fan shall take suction near the floor as far as practical from the door and air discharge so located as not to contaminate air inlets to any rooms or structures. Air inlets shear the ceiling.	
	<u>v.</u>	Louvers for chlorine room air intake and exhaust shall facilitate airtight closure.	()
		Separate switches for the fan and lights shall be located outside of the chlorine room and w. Outside switches shall be protected from vandalism. A signal light indicating fan operation che entrance when the fan can be controlled from more than one (1) point.	
	<u>vii.</u>	Vents from feeders and storage shall discharge to the outside atmosphere, above grade.	()
connecte	<u>viii.</u> ed to othe	Where provided, floor drains shall discharge to the outside of the building and shall are internal or external drainage systems.	not be
heat. Cy	<u>ix.</u> linders aı	Chlorinator rooms shall be heated to sixty degrees farenheit (60°F) and be protected from exceeding gas lines shall be protected from temperatures above that of the feed equipment.	essive
	<u>X.</u>	Pressurized chlorine feed lines shall not carry chlorine gas beyond the chlorinator room.	()
	<u>xi.</u>	Critical isolation valves shall be conspicuously marked and access kept unobstructed.	()
the prese	<u>xii.</u> ence of cl	All chlorine rooms, buildings, and areas shall be posted with a prominent danger sign warm hlorine.	ing of
being kn ammoni	ocked ov a storage	Full and empty cylinders of chlorine gas shall be isolated from operating areas and sto ed places away from elevators, stairs, or gangways. They shall be restrained in position to power or damaged by passing or falling objects. In addition, they shall be stored in rooms separate, out of direct sunlight, and at least twenty (20) feet from highly combustible materials. Cylin unventilated enclosures such as lockers and cupboards.	revent e from
containe		Where acids and caustics are used, they shall be kept in closed corrosion-resistant shage units. Acids and caustics shall not be handled in open vessels, but shall be pumped in uncal containers through suitable hose to the point of treatment or to a covered day tank.	
		Sodium chlorite for chlorine dioxide generation. Proposals for the storage and use of sapproved by the Department prior to the preparation of final plans and specifications. Provor proper storage and handling of sodium chlorite to eliminate any danger of fire or exp	isions
		s oxidizing nature.	()

	Chlorite (sodium chlorite) shall be stored by itself in a separate room. It must be stored away from s. The storage structure shall be constructed of noncombustible materials. If the storage structure in an area where a fire may occur, water must be available to keep the sodium chlorite area cool
	t heat-induced explosive decomposition of the chlorite.
<u>ii.</u> clean up of any sp	Care shall be taken to prevent spillage. An emergency plan of operation shall be available for the pillage. Storage drums shall be thoroughly flushed prior to recycling or disposal.
be fitted with pre	Where ammonium hydroxide is used, an exhaust fan shall be installed to withdraw air from high n and makeup air shall be allowed to enter at a low point. The feed pump, regulators, and lines shall essure relief vents discharging outside the building away from any air intake and with water purge to the headspace of the bulk storage tank.
<u>e.</u> required) shall be	Where anhydrous ammonia is used, the storage and feed systems (including heaters where enclosed and separated from other work areas and constructed of corrosion resistant materials.
<u>i.</u>	Pressurized ammonia feed lines shall be restricted to the ammonia room.
<u>ii.</u> intake, shall be pi	An emergency air exhaust system, as described in Subsection 531.04.a., but with an elevated rovided in the ammonia storage room.
<u>iii.</u>	<u>Leak detection systems shall be fitted in all areas through which ammonia is piped.</u> ()
<u>iv.</u> backflow of wate	Special vacuum breaker/regulator provisions must be made to avoid potentially violent results of r into cylinders or storage tanks.
<u>v.</u> the entire content ammonia leaks.	Consideration shall be given to the provision of an emergency gas scrubber capable of absorbing to of the largest ammonia storage unit whenever there is a risk to the public as a result of potential ()
	Operator Safety. The Idaho General Safety and Health Standards, referenced in Subsection sed as guidance in designing facilities to ensure the safety of operators. The following requirements the requirements of Subsection 501.12.
convenient heated air, have at least	Respiratory protection equipment, meeting the requirements of the National Institute for fety and Health (NIOSH) shall be available where chlorine gas is handled, and shall be stored at a dolocation, but not inside any room where chlorine is used or stored. The units shall use compressed a thirty (30) minute capacity, and be compatible with or exactly the same as units used by the fire insible for the plant.
b. ammonia solution approved by the G	Chlorine leak detection. A bottle of concentrated ammonium hydroxide (fifty-six (56) per cent n) shall be available for chlorine leak detection. Where ton containers are used, a leak repair kit Chlorine Institute shall be provided.
<u>c.</u>	Protective equipment. ()
<u>i.</u> apron or other pro	At least one pair of rubber gloves, a dust respirator of a type certified by NIOSH for toxic dusts, an otective clothing, and goggles or face mask shall be provided for each operator.
<u>ii.</u> or stored.	A deluge shower and eyewashing device shall be installed where strong acids and alkalis are used ()
<u>iii.</u> water line feedin on an individual l	A water holding tank that will allow water to come to room temperature shall be installed in the g the deluge shower and eyewashing device. Other methods of water tempering will be considered basis.

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	<u>iv.</u>	Other protective equipment shall be provided as necessary.	()
	<u>06.</u>	Design Requirements for Specific Applications.	()
Tubing for recommer provided installed	ended l l. Other in a m	Sodium chlorite for chlorine dioxide generation. Positive displace reying sodium chlorite or chlorine dioxide solutions shall be Type 1 by the manufacturer. Chemical feeders may be installed in chloric wise, facilities meeting the requirements of chlorine rooms shall be anner to prevent formation of gas pockets and shall terminate at a provided to prevent the backflow of chlorine into the sodium chlorite	PVC, polyethylene or materials ne rooms if sufficient space is be provided. Feed lines shall be oint of positive pressure. Check
	<u>b.</u>	Sodium hypochlorite facilities shall meet the following requirement	<u>()</u>
	<u>i.</u> ole cont	Sodium hypochlorite shall be stored in the original shipping containers. Storage containers or tanks shall be sited out of the sunlight in	
	<u>ii.</u> able, de	Stored hypochlorite shall be pumped undiluted to the point of ionized or softened water shall be used.	of addition. Where dilution is
	<u>iii.</u> es and a	Storage areas, tanks, and pipe work shall be designed to avoid a sufficient amount of appropriately selected spill absorbent shall be s	the possibility of uncontrolled stored on-site.
wetted su	<u>iv.</u> urfaces.	Sodium hypochlorite feeders shall be positive displacement pump	os with compatible materials for ()
ease esca	ape of	To avoid air locking in smaller installations, small diameter suctions assing pump heads. In larger installations flooded suction shall be upgas bubbles. Calibration tubes or mass flow monitors which allow a shall be fitted.	sed with pipe work arranged to
	<u>vi.</u>	Injectors shall be made removable for regular cleaning where hard	water is to be treated.
corrosion solid. Th	e tank	When ammonium sulfate is used, the tank and dosing equipment cant non-metallic materials. Provision shall be made for removal of shall be fitted with a lid and vented outdoors. Injection of the solution flow at a location where there is high velocity movement.	the agitator after dissolving the
and sepa		When aqua ammonia (ammonium hydroxide) is used, the feed pum rom other operating areas. The aqua ammonia room shall be equip following changes:	nps and storage shall be enclosed oped as required for chlorinator ()

inert liquid trap to a high point outside and an incompatible connector, or lockout provisions shall be made to prevent

opening the system to dilute and mix the contents with water to avoid conditions where temperature increases cause

A corrosion resistant, closed, unpressurized tank shall be used for bulk storage, vented through an

The storage tank shall be fitted either with cooling/refrigeration and/or with provision without

accidental addition of other chemicals to the storage tank.

the ammonia vapor pressure over the aqua ammonia to exceed atmospheric pressure.

	<u>V.</u>	Provisions shall be made for easy access for removal of calcium scale deposits from the injector	<u>or.</u>)
water qu	tening pro uality in c	ITY AND DESIGN STANDARDS - DESIGN STANDARDS FOR SOFTENING. occess selected must be based upon the mineral qualities of the raw water and the desired finite conjunction with requirements for disposal of sludge or brine waste, cost of plant, cost of chemin. Applicability of the process chosen shall be demonstrated.	
requirer	01. nents of S	Lime or Lime-Soda Process. Rapid mix, flocculation, and sedimentation processes shall mee Section 520. In addition the following requirements must be met:	et the
provide	<u>a.</u> d.	When split treatment is used, an accurate means of measuring and splitting the flow must	st be
velocity	b. gradients	Rapid mix basins must provide not more than thirty (30) seconds detention time with adec to keep the lime particles dispersed.	quate)
Section	<u>c.</u> 537.	Equipment for stabilization of water softened by the lime or lime-soda process is required	l <u>, see</u>)
	<u>d.</u>	Mechanical sludge removal equipment shall be provided in the sedimentation basin.)
	<u>e.</u>	Provisions must be included for proper disposal of softening sludges; see Section 540.)
	<u>f.</u>	The plant processes must be manually started following shut-down.)
	<u>02.</u>	Cation Exchange Process.)
<u>milligra</u>	<u>a.</u> m per lite	Pre-treatment is required when the content of iron, manganese, or a combination of the two, is at (1 mg/l) or more.	s one
		The units may be of pressure or gravity type, of either an upflow or downflow design. Autored on volume of water softened shall be used unless manual regeneration is justified and is approxit. A manual override shall be provided on all automatic controls.	natic oved
exchang	<u>c.</u> ge units.	Rate-of-flow controllers or the equivalent shall be used to control the hydraulic loading of c	ation)
provide	d. d for rapid	The bottoms, strainer systems and support for the exchange resin shall conform to the crid rate gravity filters in Section 521.	iteria)
<u>a manne</u>	er as to pr	Cross Connection Control. Backwash, rinse and air relief discharge pipes shall be installed in event any possibility of back-siphonage.	such)
hardnes a shutof		A bypass must be provided around softening units to produce a blended water of designing meters must be installed on the bypass line and on each softener unit. The bypass line must	
is not da	g. amaged by	When the applied water contains a chlorine residual, the cation exchange resin shall be a type y residual chlorine.	e that
discharg	ge piping.	Smooth-nose sampling taps must be provided for the collection of representative samples. The to provide for sampling of the softener influent, effluent, blended water, and on the brine. The sampling taps for the blended water shall be at least twenty (20) feet downstream from Petcocks are not acceptable as sampling taps.	tank

		OF ENVIRONMENTAL QUALITY or Public Drinking Water Systems	Docket No. 58-0108-0602 Proposed Rulemaking
<u>i</u>	<u>i.</u>	Brine and salt storage tanks shall meet the following requirements:	()
<u>i</u> resistant.	<u>i.</u>	Salt dissolving or brine tanks and wet salt storage tanks must be co	vered and must be corrosion-
<u>i</u>	<u>ii.</u>	The make-up water inlet must be protected from back-siphonage.	()
dumping		Wet salt storage basins must be equipped with manholes or hatchward from truck or railcar. Openings must be provided with raised curbs as similar to those required for finished water reservoirs.	
	<u>iv.</u> er a turn	Overflows, where provided, must be protected with corrosion resistated downed bend having a proper free fall discharge or a self-closing flower	nt screens and must terminate lap valve. ()
<u>7</u>	<u>V.</u>	The salt shall be supported on graduated layers of gravel placed over	a brine collection system.
considere	<u>vi.</u> ed.	Alternative designs which are conducive to frequent cleaning of the	wet salt storage tank may be ()
	<u>vii.</u> asuring	An eductor may be used to transfer brine from the brine tank to the stank or means of metering shall be provided to obtain the proper diluti	
brine mus		Suitable disposal must be provided for brine waste; see Section 540 duced, consideration may be given to using a part of the spent liquid	
<u>k</u> acceptable	k. e pipin	Pipes and contact materials must be resistant to the aggressiveness of g materials. Steel and concrete must be coated with a non-leaching salt and brine.	
order to p	l. prevent	Bagged salt and dry bulk salt storage shall be enclosed and separated damage to equipment.	from other operating areas in ()
		ITY AND DESIGN STANDARDS - DESIGN STANDARDS	FOR TASTE AND ODOR
treatment	shall b	be made for the control of taste and odor. Chemicals shall be added ses to assure adequate contact time for an effective and economical odor problems are encountered, in-plant and/or pilot plant studies may	use of the chemicals. Where
	01. provided	Chlorination. When using chlorination as a method of taste and odor to complete the chemical reactions involved.	control adequate contact time
	02. liminate	Chlorine Dioxide. Provisions shall be made for proper storing and have any danger of explosion.	andling of the sodium chlorite,
9	<u>03.</u>	Powdered Activated Carbon.	()
carbon is	a. properl	The carbon can be added as a pre-mixed slurry or by means of a dry wetted.	y-feed machine as long as the ()
the slurry	<u>b.</u> storage	Continuous agitation or resuspension equipment is necessary to keep e tank.	the carbon from depositing in ()
<u>c</u>	<u>c.</u>	Provision shall be made for adequate dust control.	()
<u>c</u>	<u>d.</u>	Powdered activated carbon shall be handled as a potentially combusti	ible material. ()

<u>04.</u>	Granular Activated Carbon. Replacement of anthracite with GAC may be considered as cosmin and methyl isoborneol (MIB) taste and odors from algae blooms in surface water app	
	studies are required by the Department.	(<u>)</u>
point zero (1.0)	Copper Sulfate and Other Copper Compounds. Continuous or periodic treatment of oper compounds to kill algae or other growths shall be controlled to prevent copper in exce milligrams per liter as copper in the plant effluent or distribution system. Care shall be taken ution of the chemical within the treatment area.	ss of one
the treatment s	Potassium Permanganate. Application of potassium permanganate may be considered, phall be designed so that the products of the reaction are not visible in the finished water.	providing ()
be provided to	Ozone. Ozonation may be used as a means of taste and odor control. Adequate contact to complete the chemical reactions involved.	ime must
<u>08.</u> and approval o	Other Methods. Other methods of taste and odor control shall be made only after pilot pf the Department.	olant tests ()
Public water s Quality, IDAP/ shall contact of emissions resu	LITY AND DESIGN STANDARDS - AERATION PROCESSES. ystems that install aeration treatment are subject to the Rules of the Department of Envir A 58.01.01, "Rules for the Control of Air Pollution in Idaho." The system owner or the design ne of the Department's regional offices for information on obtaining a permit or an exemption liting from the aeration process. General information may be found at http://www.deq.idahoxics/overview.cfm#tap.	engineer on for the
<u>01.</u>	Natural Draft Aeration. Design shall provide:	()
a. spaced one to t	Perforations in the distribution pan three sixteenths to one-half $(3/16 - \frac{1}{2})$ inches in hree $(1-3)$ inches on centers to maintain a six (6) inch water depth.	diameter,
<u>b.</u>	For distribution of water uniformly over the top tray.	()
<u>c.</u> (12) inches.	Discharge through a series of three (3) or more trays with separation of trays not less that	an twelve
<u>d.</u>	Loading at a rate of one to five (1-5) gallons per minute for each square foot of total tray a	<u>()</u>
<u>e.</u>	Trays with slotted, heavy wire (1/2 inch openings) mesh or perforated bottoms.	()
<u>f.</u>	Construction of durable material resistant to aggressiveness of the water and dissolved gas	<u>ses.</u> ()
<u>g.</u>	Protection from insects by twenty-four (24) mesh screen.	()
<u>02.</u>	Forced or Induced Draft Aeration. Devices shall be designed to:	()
<u>a.</u>	Include a blower with a weatherproof motor in a tight housing and screened enclosure.	()
<u>b.</u>	Ensure adequate counter current of air through the enclosed aerator column.	()
<u>c.</u>	Exhaust air directly to the outside atmosphere.	()
<u>d.</u>	Include a down-turned and twenty-four (24) mesh screened air outlet and inlet.	()
e.	Be such that air introduced in the column shall be as free from obnoxious fumes, dust, a	nd dirt as

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possibl	<u>e.</u>		()
interior	<u>f.</u> or install	Be such that sections of the aerator can be easily reached or ren led in a separate aerator room.	noved for maintenance of the ()
area.	<u>g.</u>	Provide loading at a rate of one to five (1-5) gallons per minute for	each square foot of total tray
	<u>h.</u>	Ensure that the water outlet is adequately sealed to prevent unwarran	ted loss of air. ()
inches	<u>i.</u> or as appı	Discharge through a series of five (5) or more trays with separation roved by the Department.	n of trays not less than six (6)
	<u>j.</u>	Provide distribution of water uniformly over the top tray.	()
	<u>k.</u>	Be of durable material resistant to the aggressiveness of the water an	d dissolved gases. ()
	<u>03.</u>	Spray Aeration. Design shall provide:	()
	<u>a.</u>	A hydraulic head of between five (5) and twenty-five (25) feet.	()
and the	b. amount o	Nozzles, with the size, number, and spacing of the nozzles being depof head available.	pendent on the flowrate, space,
	<u>c.</u>	Nozzle diameters in the range of one (1) to one and one-half (1.5) inc	ches to minimize clogging.
twenty-	<u>d.</u> -four (24)	An enclosed basin to contain the spray. Any openings for ventilat mesh screen.	tion must be protected with a
aeration thorough	n must ha gh mixing	Pressure Aeration. Pressure aeration may be used for oxidation problementhod is applicable; it is not acceptable for removal of dissolved gave adequate exhaust devices for release of air. Pressure aeration developed of compressed air with water being treated and provide screened and and other contaminants.	ases. Filters following pressure rices shall be designed to give
		Packed Tower Aeration. Packed tower aeration may be used for the omethanes, carbon dioxide, and radon. Final design shall be based on the Department.	
	<u>a.</u>	Process design criteria.	()
evaluat shall b perform	e a variet e given nance dat	Justification for the design parameters selected (i.e., height and diam surface loading rate, etc.) shall be provided to the Department for y of loading rates and air to water ratios at the peak contaminant conce to removal efficiencies when multiple contaminations occur. When a on the contaminant to be treated and there is a concentration level sign approve the process design based on use of appropriate calculations versions.	review. The pilot study shall ntration. Special consideration re there is considerable past imilar to previous projects, the
to the l	<u>ii.</u> owest pra	The tower shall be designed to reduce contaminants to below the materical level.	aximum contaminant level and
study.	<u>iii.</u>	The type and size of the packing used in the full scale unit shall be th	e same as that used in the pilot
	<u>iv.</u>	The maximum air to water ratio for which credit will be given is 80:	1.

and from bacteri	The design shall consider potential fouling problems from calcium carbonate and iron precipal growth. It may be necessary to provide pretreatment. Disinfection capability shall be provided in the problems of the problems o	
	packed tower aeration.	()
<u>vi.</u>	The effects of temperature shall be considered.	()
<u>vii.</u>	Redundant packed tower aeration capacity at the design flowrate shall be provided.	()
support to preve	The tower may be constructed of stainless steel, concrete, aluminum, fiberglass or steel is not allowed. Towers constructed of light-weight materials shall be provided with acent damage from wind. Packing materials shall be resistant to the aggressiveness of the und cleaning materials and shall be suitable for contact with potable water.	dequate
<u>c.</u>	Water flow system.	()
<u>i.</u> distributor trays t	Water shall be distributed uniformly at the top of the tower using spray nozzles or orifithat prevent short circuiting.	ce-type ()
<u>ii.</u>	A mist eliminator shall be provided above the water distributor system.	()
<u>iii.</u> water channeling	A side wiper redistribution ring shall be provided at least every ten (10) feet in order to along the tower wall and short circuiting.	prevent ()
<u>iv.</u>	Sample taps shall be provided in the influent and effluent piping.	()
v. a drain valve. The	The effluent sump, if provided, shall have easy access for cleaning purposes and be equipped drain shall not be connected directly to any storm or sanitary sewer.	ed with
vi. operating.	The design shall prevent freezing of the influent riser and effluent piping when the unit	t is not
<u>vii.</u>	The water flow to each tower shall be metered.	()
<u>viii.</u> splash pad or dra	An overflow line shall be provided which discharges twelve (12) to fourteen (14) inches a inage inlet. Proper drainage shall be provided to prevent flooding of the area.	above a
<u>ix.</u>	Means shall be provided to prevent flooding of the air blower.	()
<u>d.</u>	Air flow system.	()
<u>i.</u> non-corrodible tv	The air inlet to the blower and the tower discharge vent shall be down-turned and protected wenty-four (24) mesh screen to prevent contamination from extraneous matter.	l with a
<u>ii.</u>	The air inlet shall be in a protected location.	()
<u>iii.</u> the air flow shall	An air flow meter shall be provided on the influent air line or an alternative method to det be provided.	termine ()
	A positive air flow sensing device and a pressure gauge must be installed on the air influe flow sensing device must be a part of an automatic control system which will turn off the iair flow is not detected. The pressure gauge will serve as an indicator of fouling buildup.	
<u>V.</u>	A backup motor for the air blower must be readily available.	()
<u>e.</u>	Other features that shall be provided:	()
<u>i.</u>	A sufficient number of access ports with a minimum diameter of twenty-four (24) inc	ches to

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facilitat	e inspect	ion, media replacement, media cleaning and maintenance of the interio	<u>r.</u> ()
may oc	<u>ii.</u> cur.	A method of cleaning the packing material when iron, manganese,	or calcium carbonate foulin	<u>1g</u>)
	<u>iii.</u>	Tower effluent collection and pumping wells constructed to clearwell	standards. ()
	<u>iv.</u>	Provisions for extending the tower height without major reconstruction	<u>(</u>	_)
	<u>v.</u>	No bypass shall be provided unless specifically approved by the Department of the De	artment. (_)
distribu	<u>vi.</u> tion syste	Disinfection and adequate contact time after the water has passed thrown.	ough the tower and prior to the	<u>ne</u>)
packing	<u>vii.</u> g heights.	Adequate packing support to allow free flow of water and to pre-	event deformation with dec	<u>q:</u>
	<u>viii.</u>	Operation of the blower and disinfectant feeder equipment during pover	wer failures. (_)
loading	<u>ix.</u>	Adequate foundation to support the tower and lateral support to pre	vent overturning due to win	<u>1d</u>)
	<u>X.</u>	Fencing and locking gate to prevent vandalism.	<u>(</u>	_)
mister.	<u>xi.</u>	An access ladder with safety cage for inspection of the aerator inclu	ding the exhaust port and d	<u>e-</u>)
	<u>xii.</u>	Electrical interconnection between blower, disinfectant feeder and sur	pply pump. (_)
		Other Methods of Aeration. Other methods of aeration may be used hods include but are not restricted to spraying, diffused air, cascades sees are subject to the approval of the Department.	l if applicable to the treatme and mechanical aeration. The	<u>nt</u> <u>1e</u>)
	07. shall be post of the ac	Protection of Aerators. All aerators except those discharging to light rotected from contamination by birds, insects, wind borne debris, rainforator.		
disinfed	08. ction as th	Disinfection. Ground water supplies exposed to the atmosphere minimum additional treatment.	e by aeration must receiv	<u>/e</u>)
535.	D O T O T T	ITY AND DESIGN STANDARDS - DESIGN STANDARDS FOR	IRON AND MANGANES	E
Iron an purpose treatme chemic	e. The treatent process al analyse	nese control, as used herein, refers solely to treatment processes of atment process used will depend upon the character of the raw water. The sess must meet specific local conditions as determined by engineer as of representative samples of water to be treated, and receive the apprequire a pilot plant study in order to gather all information pertinent to	ne selection of one (1) or moring investigations, including proval of the Department. The	re 1g
	<u>01.</u>	Removal by Oxidation, Detention and Filtration.	<u>(</u>	_)
ozone o	a. or chlorin	Oxidation may be by aeration or by chemical oxidation with chlorical dioxide.	ine, potassium permanganat	<u>e,</u>)
	<u>b.</u>	Detention time:	(_)
that the	<u>i.</u> oxidatio	A minimum detention time of thirty (30) minutes shall be provided a reactions are as complete as possible. This minimum detention may	following aeration to ensube omitted only where a pil	<u>re</u> ot

		ates no need for detention. The detention basin may be designed as a holding tank without pro- tion but with sufficient baffling to prevent short circuiting.	visions ()
content, made.	ii. or where	Sedimentation basins shall be provided when treating water with high iron and/or man chemical coagulation is used to reduce the load on the filters. Provisions for sludge removal s	ganese shall be ()
<u>filters sl</u>	<u>c.</u> hall not be	Filtration. Rapid rate pressure filters are normally used for iron and manganese removal. Pre used in the filtration of surface or other polluted waters or following lime-soda softening.	ressure ()
except v	<u>i.</u> where in- _l	The rate of filtration shall not exceed three (3) gallons per minute per square foot of filted plant testing as approved by the Department has demonstrated satisfactory results at higher range.	
	<u>ii.</u>	The filters shall be designed to provide for:	()
	(1)	Loss of head gauges on the inlet and outlet pipes of each battery of filters.	()
	<u>(2)</u>	An easily readable meter or flow indicator on each battery of filters.	()
possible	(3) to accon	Filtration and backwashing of each filter individually with an arrangement of piping as sin nplish these purposes.	nple as
acceptal	(4) ble where	Minimum side wall shell height of five (5) feet. A corresponding reduction in side wall he proprietary bottoms permit reduction of the gravel depth.	eight is
media,	<u>(5)</u>	The top of the wash water collectors to be at least eighteen (18) inches above the surface	of the
<u>backwa</u>	(<u>6)</u> sh water a	The underdrain system to efficiently collect the filtered water and to uniformly distribute at a rate not less than fifteen (15) gallons per minute per square foot of filter area.	ute the
	<u>(7)</u>	Backwash flow indicators and controls that are easily readable while operating the control value of the control va	alves.
	<u>(8)</u>	An air release valve on the highest point of each filter.	()
<u>in diam</u>	(9) eter. Suffi	An accessible manhole to facilitate inspection and repairs for filters thirty-six (36) inches o icient handholds shall be provided for filters less than thirty-six (36) inches in diameter.	or more
connect	(10) ion.	A means to observe the wastewater during backwashing and construction to prevent	t cross
feed of	02. potassium	Removal by Manganese Coated Media Filtration. This process consists of a continuous on permanganate to the influent of a manganese coated media filter.	r batch
perman	<u>a.</u> ganate fee	Other oxidizing agents or processes such as chlorination or aeration may be used prior ed to reduce the cost of the chemical.	to the
provide	b. d over ma	An anthracite media cap of at least six (6) inches or more as required by the Department sanganese coated media.	hall be ()
	<u>c.</u>	Normal filtration rate shall be three (3) gallons per minute per square foot.	()
greensa	d. nd and fif	Normal wash rate shall be eight (8) to ten (10) gallons per minute per square foot with man fteen (15) to twenty (20) gallons per minute with manganese coated media.	ganese ()

DEPARTMENT OF ENVIRONMENTAL QUALITY Docket No. 58-0108-0602 Idaho Rules for Public Drinking Water Systems Proposed Rulemaking Sample taps shall be provided prior to application of permanganate, immediately ahead of filtration, at points between the anthracite media, and at the filter effluent. **Removal by Ion Exchange.** This process is not acceptable where either the raw water or wash water contains dissolved oxygen or other oxidants. Biological Removal. Biofiltration to remove manganese and/or iron requires on-site piloting testing to establish effectiveness. The final filter design shall be based on the on-site pilot plant studies. Sequestration by Polyphosphates. This process shall not be used when iron, manganese or a combination thereof exceeds one point zero (1.0) mg/l. The total phosphate applied shall not exceed ten (10) mg/l as PO₄. Where phosphate treatment is used, satisfactory chlorine residuals shall be maintained in the distribution system. Possible adverse affects on corrosion must be addressed when phosphate addition is proposed for iron sequestering. Stock phosphate solution must be kept covered and disinfected by carrying approximately ten (10) mg/l free chlorine residual unless the phosphate is not able to support bacterial growth and the phosphate is being fed from the covered shipping container. Phosphate solutions having a pH of two point zero (2.0) or less may also be exempted from this requirement by the Department. Polyphosphates shall not be applied ahead of iron and manganese removal treatment. The point of application shall be prior to any aeration, oxidation or disinfection if no iron or manganese removal treatment is provided. Sequestration by Sodium Silicates. Sodium silicate sequestration of iron and manganese is allowed only for ground water supplies prior to air contact. On-site pilot tests are required to determine the suitability of sodium silicate for the particular water and the minimum feed needed. Rapid oxidation of the metal ions such as by chlorine or chlorine dioxide must accompany or closely precede the sodium silicate addition. Sodium silicate addition is applicable to waters containing up to two (2) mg/l of iron, manganese or combination thereof. Chlorine residuals shall be maintained throughout the distribution system to prevent biological breakdown of the sequestered iron. The amount of silicate added shall be limited to twenty (20) mg/l as SiO₂, but the amount of added and naturally occurring silicate shall not exceed sixty (60) mg/l as SiO₂. Sodium silicate shall not be applied ahead of iron or manganese removal treatment. <u>d.</u> Sampling Taps. Smooth-nosed sampling taps shall be provided for control purposes. Taps shall be located on each raw water source, each treatment unit influent and each treatment unit effluent.

536. FACILITY AND DESIGN STANDARDS - DESIGN STANDARDS FOR FLUORIDATION.

- percent of the average daily change in reading shall be provided for chemical feeds.
- <u>b.</u> The accuracy of chemical feeders used for fluoridation shall be plus or minus five (5) percent of the intended dose.
- <u>c.</u> <u>Unsealed storage units for fluorosilicic acid shall be vented to the atmosphere at a point outside any building.</u>

DEPARTMENT OF ENVIRONMENTAL QUALITY Docket No. 58-0108-0602 Idaho Rules for Public Drinking Water Systems Proposed Rulemaking Fluoride compound shall not be added before lime-soda softening or ion exchange softening. d. The point of application of fluorosilicic acid, if into a horizontal pipe, shall be in the lower half of the pipe. A fluoride solution shall be applied by a positive displacement pump having a stroke rate not less than twenty (20) strokes per minute, and at a feed rate not less than twenty (20) percent of the rated capacity of the feed pump. A spring opposed diaphragm type anti-siphon device shall be provided for all fluoride feed lines and dilution water lines. Except for constant flow systems, a device to measure the flow of water to be treated is required. <u>h.</u> <u>i.</u> The dilution water pipe shall terminate at least two (2) pipe diameters above the solution tank. Water used for sodium fluoride dissolution shall be softened if hardness exceeds seventy-five (75) mg/l as calcium carbonate. Fluoride solutions shall be injected at a point of continuous positive pressure or a suitable air gap provided. The electrical outlet used for the fluoride feed pump shall be interconnected with the well or service <u>l.</u> pump. Consideration shall be given to providing a separate room for fluorosilicic acid storage and feed. <u>m.</u> Secondary Controls. Secondary control systems for fluoride chemical feed devices shall be provided as a means of reducing the possibility for overfeed; these may include flow or pressure switches or other devices. Dust Control. Provision must be made for the transfer of dry fluoride compounds from shipping <u>03.</u> containers to storage bins or hoppers in such a way as to minimize the quantity of fluoride dust which may enter the room in which the equipment is installed. The enclosure shall be provided with an exhaust fan and dust filter which places the hopper under a negative pressure. Air exhausted from fluoride handling equipment shall discharge through a dust filter to the outside atmosphere of the building. 537. FACILITY AND DESIGN STANDARDS - DESIGN STANDARDS FOR STABILIZATION. Water that is unstable due either to natural causes or to subsequent treatment shall be stabilized. The expected treated water quality shall be evaluated to determine what, if any, treatment is necessary. <u>01.</u> **Carbon Dioxide Addition.**

iv. The mixing and reaction compartments shall have a depth sufficient to provide a diffuser submergence of not less than seven and one half (7.5) feet and no greater than the manufacturer's recommendation.

A mixing compartment having a detention time of at least three (3) minutes.

Recarbonation basin design shall provide the following:

A total detention time of twenty (20) minutes.

A reaction compartment.

<u>a.</u>

<u>ii.</u> iii.

	T OF ENVIRONMENTAL QUALITY or Public Drinking Water Systems	Docket No. 58-0108-0602 Proposed Rulemaking
		<u>()</u>
<u>b.</u> from entering the	Where liquid carbon dioxide is used, adequate precautions must be to plant from the recarbonation process.	aken to prevent carbon dioxide ()
c. seals and adequa	Recarbonation tanks shall be located outside or be sealed and vente the purge flow of air to ensure workers safety.	ed to the outside with adequate
<u>d.</u>	Provisions shall be made for draining the recarbonation basin and re	moving sludge. ()
control, and in co	Phosphates. The feeding of phosphates may be used for sequence on junction with alkali feed following ion exchange softening.	stering calcium, for corrosion
<u>a.</u> mg/l free chlorin from the covered from this require	Stock phosphate solution must be kept covered and disinfected by che residual unless the phosphate is not able to support bacterial growth dishipping container. Phosphate solutions having a pH of two point agreement.	and the phosphate is being fed
<u>b.</u> used.	Satisfactory chlorine residuals shall be maintained in the distribution	n system when phosphates are ()
water prior to se contain facilities	Split Treatment . Raw water may be blended with lime-softened econdary clarification and filtration. Treatment plants designed to ut for further stabilization by other methods.	
within tubercles	Water Unstable Due to Biochemical Action in Distribution Systal decomposition of organic matter in water (especially in dead end and the reduction of sulfates to sulfides shall be prevented by the ne residual throughout the distribution system.	mains), the biochemical action
<u>538. – 539.</u>	(RESERVED).	
Provisions must sludge, softening	MASTE RESIDUALS. be made for proper disposal of water treatment plant waste such as sag sludge, iron sludge, filter backwash water, and liquid concentrations shall be given to preventing potential contamination of the	anitary, laboratory, clarification es. In locating waste disposal
sewer system, w	Sanitary Waste. The sanitary waste from water treatment plants allations must receive treatment. Waste from these facilities shall be divided available and feasible, or to an adequate on-site waste treatmed APA 58.01.03, "Individual/Subsurface Sewage Disposal Rules."	ischarged directly to a sanitary
<u>02.</u>	Liquid Concentrates.	()
<u>a.</u> produce liquid co	Waste from ion exchange plants, demineralization plants, reverse concentrates may be disposed of by the following methods:	osmosis, or other plants which
	Liquid concentrates that contain radionuclides must be further treatudge. See Subsection 540.03.e. for disposal requirements for sludge the from which radionuclides have been removed may be disposed of in 12th 540.02.a.v.	hat contains radionuclides. The
ii. Such discharge v Agency, Region	Controlled discharge to a stream or other receiving water body if will require a National Pollution Elimination System Permit from the 10, 1200 Sixth Avenue, Seattle, WA 98101, Telephone (206) 553-120	U.S. Environmental Protection

such waste must	Liquid concentrates may be discharged to a sanitary sewer, if available and feasible. Acceptance be approved by the sewer authority.	<u>of</u> _)
iv. discharge meets IDAPA 58.01.17	Subsurface disposal or land application of liquid concentrates may be permitted, but only if such the requirements of the IDAPA 58.01.03, "Individual/Subsurface Sewage Disposal Rules" and "Rules for the Reclamation and Reuse of Municipal and Industrial Wastewater."	<u>ch</u> /or)
	Liquid concentrates may be discharged to an injection well if in accordance with Rules of the Idal Board, IDAPA 37.03.03 "Rules and Minimum Standards for the Construction and Use of Injectic ed in Subsection 002.02.	<u>ho</u> <u>on</u>)
described in Surproduce sludge a	Should the nature of the liquid concentrate cause it to be ineligible for permitted discharge esection 540.02.a., further onsite treatment of the liquid concentrate may be required in order and liquid waste that will meet the permit criteria for one (1) or more of the disposal options.	
by methods des	Sludge Waste. Sludge is the solid waste resulting from coagulation, precipitation, or passic concentrates. Depending on composition, liquids remaining after sludge removal may be disposed cribed in Subsection 540.02, recycled through the treatment plant, or may be pure enough to be following methods of treatment and disposal apply to sludge:	of
<u>a.</u>	Precipitative Softening Sludge.)
<u>i.</u> operation. Provi provided.	At least two (2) temporary storage lagoons must be provided in order to give flexibility sions must be made for convenient cleaning. An acceptable means of final sludge disposal must be for convenient cleaning.	
<u>ii.</u> other contamina	Liquid or dewatered precipitative softening sludge may be applied to farm land if heavy metals into do not exceed the requirements of IDAPA 58.01.02, "Water Quality Standards."	<u>or</u>)
	Dewatered precipitative softening sludge may be disposed of in a sanitary landfill in accordance ments of IDAPA 58.01.06, "Solid Waste Management Rules." Acceptance of such waste is at the landfill authority.	
with the require	ments of IDAPA 58.01.06, "Solid Waste Management Rules." Acceptance of such waste is at the	
with the require discretion of the b. i. filling and dewa shall be precede	ments of IDAPA 58.01.06, "Solid Waste Management Rules." Acceptance of such waste is at the landfill authority.	ent
with the require discretion of the b. i. filling and dewa shall be preceded design of a mechanic lit.	ments of IDAPA 58.01.06, "Solid Waste Management Rules." Acceptance of such waste is at the landfill authority. Alum or Ferric Sludge. Temporary storage lagoons must contain at least two (2) compartments to facilitate independent terring operations. Mechanical concentration may be considered. If mechanical dewatering is used, and by sludge concentration and chemical pre-treatment. A pilot plant study is required before the land of the plant study is required before the land of the plant study is required before the land of the plant study is required before the land of the plant study is required before the land of the plant study is required before the land of the plant study is required before the land of the plant study is required before the land of the plant study is required before the land of the plant study is required before the land of the plant study is required before the land of the plant study is required before the plant study is	ent the the
with the require discretion of the b. b. filling and dewa shall be precededesign of a mechanism of such waste m	ments of IDAPA 58.01.06, "Solid Waste Management Rules." Acceptance of such waste is at the landfill authority. Alum or Ferric Sludge. Temporary storage lagoons must contain at least two (2) compartments to facilitate independentering operations. Mechanical concentration may be considered. If mechanical dewatering is used, do by sludge concentration and chemical pre-treatment. A pilot plant study is required before the lanical dewatering installation. Alum or ferric sludge may be discharged to a sanitary sewer if available and feasible. Acceptance is the approved by the sewer authority. Dewatered alum or ferric sludge may be disposed of in a sanitary landfill in accordance with the IDAPA 58.01.06, "Solid Waste Management Rules." Acceptance of such waste is at the discretion	ent it the line line line line line line line lin
with the require discretion of the b. filling and dewa shall be precededesign of a mechanism of such waste m requirements of the landfill authority. IDAPA 58.01.0	ments of IDAPA 58.01.06, "Solid Waste Management Rules." Acceptance of such waste is at the landfill authority. Alum or Ferric Sludge. Temporary storage lagoons must contain at least two (2) compartments to facilitate independentering operations. Mechanical concentration may be considered. If mechanical dewatering is used, do by sludge concentration and chemical pre-treatment. A pilot plant study is required before the lanical dewatering installation. Alum or ferric sludge may be discharged to a sanitary sewer if available and feasible. Acceptance is the approved by the sewer authority. Dewatered alum or ferric sludge may be disposed of in a sanitary landfill in accordance with the IDAPA 58.01.06, "Solid Waste Management Rules." Acceptance of such waste is at the discretion	ent it ihe of of of
with the require discretion of the b. b. i. filling and dewa shall be precededesign of a mechanism of such waste m. iii. of such waste m. requirements of the landfill authority. IDAPA 58.01.0 Municipal and In y.	ments of IDAPA 58.01.06, "Solid Waste Management Rules." Acceptance of such waste is at the landfill authority. Alum or Ferric Sludge. Temporary storage lagoons must contain at least two (2) compartments to facilitate independentering operations. Mechanical concentration may be considered. If mechanical dewatering is used, do by sludge concentration and chemical pre-treatment. A pilot plant study is required before the lanical dewatering installation. Alum or ferric sludge may be discharged to a sanitary sewer if available and feasible. Acceptance is the approved by the sewer authority. Dewatered alum or ferric sludge may be disposed of in a sanitary landfill in accordance with the IDAPA 58.01.06, "Solid Waste Management Rules." Acceptance of such waste is at the discretion ority. Alum or ferric sludge may be disposed of by land application if the permitting requirements alumn or ferric sludge may be disposed of by land application if the Reclamation and Reuse ("Water Quality Standards," and IDAPA 58.01.17, "Rules for the Reclamation and Reuse")	ent it the lee of of of

Idaho Rules fo	or Public Drinking Water Systems	Proposed Rulemaking
<u>i.</u>	If sand filters are used they shall have the following features:	()
(1) enough to be cle	Total filter area shall be sufficient to adequately dewater applied soli aned and returned to service in one (1) day, two (2) or more cells are recommendated.	
filters are washe	The "red water" filter shall have sufficient capacity to contain, above wash water produced by washing all of the production filters in the don a rotating schedule and the flow through the production filters is resufficient volume shall be provided to properly dispose of the wash was	plant, unless the production egulated by true rate of flow
months. (3)	Where freezing is a problem, provisions should be made for covering	the filters during the winter ()
<u>(4)</u>	"Red water" filters shall not have common walls with finished water.	()
<u>ii.</u> of IDAPA 58.01	Subsurface infiltration lagoons may be permitted, but only if such discl. 03, "Individual/Subsurface Sewage Disposal Rules."	harge meets the requirements
	"Red water" may be discharged to a sanitary sewer if available and to proved by the sewer authority. Design shall prevent cross connections a patable and non-potable water.	
<u>d.</u>	Filter Backwash Water.	()
	Recycling is permitted if the backwash waters are returned to the head int if supported by engineering studies. Backwash water shall be held we solids to settle out.	ead of the treatment plant or for a sufficient time prior to
	Dewatered sludge from backwash water clarification processes may dance with the requirements of IDAPA 58.01.06, "Solid Waste Manage be approved by the landfill authority.	be disposed of in a sanitary ement Rules." Acceptance of
be disposed of i	Radioactive Sludge. Waste residuals containing radioactive substance ated carbon used for radon removal or ion-exchange regeneration wasten accordance with IDAPA 58.01.10, "Rules Regulating the Disposal or The Atomic Energy Act of 1954, As Amended."	from uranium removal, must
i. considered and a	The buildup of radioactive materials such as uranium or radon and dequate shielding and safeguards shall be provided for operators and visualization.	
IDAPA 58.01.10	Waste residuals containing naturally occurring radioactive materials the must be disposed of in an approved hazardous waste landfill (Class), "Rules Regulating the Disposal of Radioactive Materials not Regulated Amended," and IDAPA 58.01.06, "Solid Waste Management Rules."	D), in accordance with the
iii. subject to licens Ryan Plaza Driv	Waste residuals containing greater than point zero five (.05) percenting and disposal under the regulations of the U.S. Nuclear Regulatory (e., Suite 400, Arlington, TX 76011, Phone 817-860-8299.	
waste containing waste landfill. I	Arsenic Sludge. Solid waste residuals containing arsenic at a concentro of at a sanitary landfill if permitted under IDAPA 58.01.06, "Solid Waste arsenic at a concentration greater than five (5) mg/l must be disposed liquid wastes generated by arsenic treatment processes are subject to liquid concentrates, as discussed under Subsection 540.02.	e Management Rules." Solid of at an approved hazardous
<u>04.</u> components of t	Spent Media. Exhausted ion exchange media, adsorption media, or reatment processes that contain concentrated contaminants shall be dis	

DEPARTMENT OF ENVIRONMENTAL QUALITY

Docket No. 58-0108-0602

Docket No. 58-0108-0602 Proposed Rulemaking

IDAPA 58.01.06, "Solid Waste Management Rules," and/or IDAPA 58.01.10, "Rules Regulating the Disposal o Radioactive Materials not Regulated Under the Atomic Energy Act of 1954, as Amended."
541. FACILITY AND DESIGN STANDARDS - PUMPING FACILITIES. Pumping facilities shall be designed to maintain the sanitary quality of pumped water.
<u>Q1.</u> <u>Pump Houses.</u> The following requirements apply to pump houses as defined in Section 003 unles it can be shown that some or all of these requirements are not needed to protect the combination of system components in a given structure:
<u>a.</u> Pump houses shall be readily accessible for operation, maintenance, and repair at all times and under all weather conditions unless permitted to be out of service for a period of inaccessibility. (
b. Pump houses shall be protected from flooding and shall be adequately drained. The ground surface shall be graded so as to lead surface drainage away from the pump house. The floor surface shall be at least six (6 inches above the final ground surface.
<u>c.</u> <u>Pump houses shall be of durable construction, fire and weather resistant, and with outward-opening doors. All underground structures shall be waterproofed. (</u>
<u>d.</u> <u>Provisions shall be made for adequate heating for the comfort of the operator and the safe and efficient operation of the equipment. In pump houses not occupied by personnel, only enough heat need be provided to prevent freezing of equipment or treatment processes.</u>
e. Ventilation shall conform to existing local and/or state codes. Adequate ventilation shall be provided for all pumping stations for operator comfort and dissipation of excess heat and moisture from the equipment. In all cases, measures must be taken to minimize corrosion of metallic and electrical components.
f. Pump houses shall be provided with a locking door or access to prohibit unauthorized entrance and shall be protected to prevent vandalism and entrance by animals. Plans and specifications for pump houses must provide enough detail to enable the reviewing engineer to determine that the facility is secure, safe, accessible, and that it conforms to electrical and plumbing codes.
g. Pump houses shall be kept clean and in good repair and shall not be used to store toxic or hazardou materials other than those materials required for treatment processes.
A suitable outlet shall be provided for drainage from pump glands without discharging onto the floor.
<u>i.</u> Floor drains shall not be connected to sewers, storm drains, chlorination room drains, or any othe source of contamination. Sumps for pump house floor drains shall not be closer than thirty (30) feet from any well.
<u>j.</u> Adequate space shall be provided for the safe and efficient servicing of all equipment.
k. Suction basins shall be watertight, have floors sloped to permit removal of water and settled solids be covered or otherwise protected against contamination, and have two (2) pumping compartments or other means to allow the suction basin to be taken out of service for inspection maintenance or repair.
Pump houses shall be designed to allow efficient equipment servicing. Crain-ways, hoist beams eyebolts, or other adequate facilities for servicing or removal of pumps, motors or other heavy equipment shall be provided. Openings in floors, roofs or wherever else shall be provided as needed for removal of heavy or bulky equipment.
m All remote controlled stations shall be electrically operated and controlled and shall have signaling

apparatus of proven performance. Signaling apparatus shall report automatically when the station is out of service.

DEPARTMENT OF ENVIRONMENTAL QUALITY Docket No. 58-0108-0602 Idaho Rules for Public Drinking Water Systems Proposed Rulemaking Any threaded hose bib installed in the pump house must be equipped with an appropriate backflow prevention device. Pumping Units. At least two (2) pumping units shall be provided for raw water and surface source pumps. Pumps using seals containing mercury shall not be used in public drinking water system facilities. With any pump out of service, the remaining pump or pumps shall be capable of providing the peak pumping demand of the system. The pumping units shall meet the following requirements: The pumps shall have ample capacity to supply the maximum demand against the required pressure without dangerous overloading. The pumps shall be driven by prime movers able to meet the maximum horsepower condition of the pumps. The pumps shall be provided with readily available spare parts and tools. <u>c.</u> The pumps shall be served by control equipment that has proper heater and overload protection for air temperature encountered. Suction lift shall be avoided if possible. When suction lift is used, it shall be within the limits allowed by the manufacturer of the pumps, and provision shall be made for priming the pumps. Prime water must not be of lesser sanitary quality than that of the water being pumped. Means shall be provided to prevent either backpressure or backsiphonage backflow. When an air-operated ejector is used, the screened intake shall draw clean air from a point at least ten (10) feet above the ground or other source of possible contamination, unless the air is filtered by an apparatus approved by the reviewing authority. Vacuum priming may be used. Appurtenances. The following appurtenances shall be provided for all water pumps with the exception of well pumps. The requirements for well pumps are provided in Section 511. Pumps shall be adequately valved to permit satisfactory operation, maintenance and repair of the equipment. If foot valves are necessary, they shall have a net valve area of at least two and one-half (2.5) times the area of the suction pipe and they shall be screened. Each pump shall have a positive-acting check valve on the discharge side between the pump and the shut-off valve. Surge relief measures shall be designed to minimize hydraulic transients. In general, piping shall be designed so that it will have watertight joints, be protected against surge or water hammer, be provided with suitable restraints where necessary, be designed so that friction losses will be minimized, and not be subject to contamination. Each pump shall have an individual suction line or the suction lines shall be manifolded such that they will ensure similar hydraulic and operating conditions. Each pump station shall have a standard pressure gauge on its discharge line and suction line. <u>c.</u>

open to atmospheric pressure,

whichever is greater, between the feeder line and the flood rim of the tank.

pumped. Where pumps are sealed with potable water and are pumping water of lesser sanitary quality, the seal shall:

Water seals shall not be supplied with water of a lesser sanitary quality than that of the water being

Be provided with either an approved reduced pressure principle backflow preventer or a break tank

Where a break tank is provided, have an air gap of at least six (6) inches or two (2) pipe diameters,

e. Pumps, their prime movers, and accessories shall be controlled in such a manner that they will operate at rated capacity without dangerous overload. Where two (2) or more pumps are installed, provision shall be made for alternation. Provision shall be made to prevent energizing the motor in the event of a backspin cycle. Equipment shall be provided or other arrangements made to prevent surge pressures from activating controls which switch on pumps or activate other equipment outside the normal design cycle of operation.
04. Booster Pumps. In addition to other applicable requirements in Section 541, booster pumps must comply with the following:
a. In-line booster pumps shall maintain an operating pressure that is consistent with the requirements specified in Subsection 552.01, and shall be supplied with an automatic cutoff when intake pressure is less than or equal to five (5) psi.
b. Booster pumps with a suction line directly connected to any storage reservoirs shall be protected by an automatic cutoff to prevent pump damage and avoid excessive reservoir drawdown.
c. Each booster pumping station shall contain not less than two (2) pumps with capacities such that peak demand can be satisfied with the largest pump out of service.
542. FACILITY AND DESIGN STANDARDS - DISTRIBUTION SYSTEM.
06. Distribution System . Any supplier of water for a public water system shall ensure that the distribution system complies with all of the following requirements: (12-10-92)
a01. Protection from Contamination. The distribution system shall be protected from contamination and be designed to prevent contamination by steam condensate or cooling water from engine jackets or other heat exchange devices.
Q2. Installation of Water Mains. Division 400 of "Idaho Standards for Public Works Construction," referenced in Subsection 002.02, may be used as guidance for installation of water mains. In addition, the following provisions shall apply:
<u>a.</u> <u>Installed pipe shall be pressure tested and leakage tested in accordance with the applicable AWWA Standards, incorporated by reference into these rules at Subsection 002.01.</u>
<u>b.</u> New, cleaned, and repaired water mains shall be disinfected in accordance with AWWA Standard C651, incorporated by reference into these rules at Subsection 002.01. The specifications shall include detailed procedures for the adequate flushing, disinfection, and microbiological testing of all water mains.
c. In areas where aggressive soil conditions are suspected or known to exist, analyses shall be performed to determine the actual agressiveness of the soil. If soils are found to be aggressive, action shall be taken to protect metallic joint restraints and the water main, such as encasement in polyethylene, provision of cathodic protection, or use of corrosion resistant materials.
<u>d.</u> The Department must approve any interconnection between potable water supplies, taking into account differences in water quality between the two systems.
e. A continuous and uniform bedding shall be provided in the trench for all buried pipe. Backfill material shall be tamped in layers around the pipe and to a sufficient height above the pipe to adequately support and protect the pipe. Stones found in the trench shall be removed for a depth of at least six (6) inches below the bottom of the pipe.
<u>Water mains shall be covered with sufficient earth or other insulation to prevent freezing.</u> ()
g. All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement.

- **b03.** Pressure Relief Valves. All pumps connected directly to the distribution system shall be designed in conjunction with a water pressure relief valve of type, size, and material approved by the Department unless the Department approves another method that will prevent excessive pressure development.

 (5-3-03)(____)
- **e04. Flow Meter Required.** All source pumps and booster pumps connected directly to the distribution system shall have an instantaneous and totalizing flow meter, installed in accordance with manufacture's specifications, unless deemed unnecessary by the Department in a particular application. The Department may require larger water systems to provide a means of automatically recording the total water pumped. (4-6-05)()
 - **d.** Booster pumps must comply with the following:

(12-10-92)

- i. In-line booster pumps shall maintain an operating pressure that is consistent with the requirements specified in Subsection 552.01, and shall be supplied with an automatic cutoff when intake pressure is less than or equal to five (5) psi.

 (5-3-03)
- ii. Booster pumps with a suction line directly connected to any storage reservoirs shall be protected by an automatic cutoff to prevent pump damage and avoid excessive reservoir drawdown. (4-6-05)
- iii. Buildings enclosing booster pump stations shall be provided with an electrically powered ventilation fan or automated air flow system to remove heat and moisture during peak summer temperatures. If the facility is operated year round, a thermostatically regulated heater shall be installed to prevent moisture buildup during cold weather.

 (5-3-03)
- **e05. Pipe and Jointing Materials.** Pipe and jointing materials comply with the standards set forth in Subsection 550.02 501.01. Pipe shall be manufactured of materials resistant internally and externally to corrosion and not imparting tastes, odors, color, or any contaminant into the system. Where distribution systems are installed in areas of ground water contaminated by organic compounds:

 (4-11-06)(____)
- #a. Pipe and joint materials which do not allow permeation of the organic compounds shall be used; and (4-11-06)
- **iib.** Non-permeable materials shall be used for all portions of the system including pipe, joint materials, hydrant leads, and service connections. (4-11-06)
- **<u>#96.</u>** <u>Size of Water Mains.</u> <u>When fire hydrants are provided, they shall not be connected to water mains smaller than six (6) inches in diameter, and fire hydrants shall not be installed unless fireflow volumes are available. If fire flow is not provided, water mains shall be no less than three (3) inches in diameter. Any departure from this minimum standard shall be supported by hydraulic analysis and detailed projections of water use. (5-3-03)(_____)</u>
- **g07.** Separation of Potable and Non-Potable Pipelines. The relation between potable and non-potable water *mains* pipelines shall be as follows: (4-11-06)(____)
 - $i\mathbf{a}$. Non-potable mains in relation to potable water mains.

(4-11-06)(____)

(1)i. Parallel installation requirements:

(4-11-06)

($a\underline{1}$) Greater than ten (10) feet separation: no conditions.

(4-11-06)

- (b2) Ten (10) feet to six (6) feet separation: separate trenches, with potable main above non-potable main, and non-potable main to be constructed with potable water class pipe. (4-11-06)
- (e3) Less than six (6) feet separation: design engineer to submit data to the Department for review and approval showing that this installation will protect public health and the environment and non-potable main to be constructed of potable water class pipe. (4-11-06)
 - (d4) Potable and non-potable water mains shall never be installed Non-potable mains are prohibited

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from being locat	<u>sed</u> in the same trench <u>as potable mains</u> .	(4-11-06) ()
<u>(5)</u>	Pressure sewage mains shall be no closer horizontally than ten (10) feet from	potable mains.()
(2) ii.	Non-potable mains crossing potable water mains requirements:	(4-11-06)
(<u>a1</u>) Non–potable ma	Eighteen (18) inches or more vertical separation with potable water main about joint to be as far as possible from the potable water main.	ove non-potable main. (4-11-06)
feet either side or crossing, or sleed crossing. Use of	Less than eighteen (18) inches vertical separation: Non-potable main con and non-potable main joint as far as possible from potable water main for a of potable main with a single twenty (20) foot section of potable water class eve non-potable pipe or potable main with potable water class pipe for ten (concrete slurry encasement is not allowed as a substitute for sleeving. If potable non-potable main must also be supported through the crossing to prevent sett	minimum of ten (10) s pipe centered on the 10) feet either side of the main is below non-
(3)	Pressure sewage mains shall be no closer vertically than eighteen (18) inches	from potable mains.
Bureau as guida shall apply to al	New Non-potable services in relation to non-potable services and new non-potable mains. The Department will use the Memorandum of Understand nee in determining the relative responsibilities for reviewing service lines. The potable services constructed or reconstructed after April 15, 2007 and where icensed professional engineer is the reviewing authority.	ing with the Plumbing e following conditions
(1) i.	Parallel installation requirements:	(4-11-06)
(<u>a1</u>)	Greater than six (6) feet separation: no conditions.	(4-11-06)
(<u>b2</u>) public health and	Less than six (6) feet separation: design engineer to submit data that this ir d the environment and non-potable service constructed with potable water class	
(e <u>3</u>) trench as non-po	Never in the same trench. New potable services are prohibited from being stable mains or non-potable services.	g located in the same (4-11-06)()
(2) ii.	Non-potable services crossing potable water services or potable water mains	requirements: (4-11-06)()
(<u>a1</u>) potable service;	Eighteen (18) inches or more vertical separation with potable <i>water</i> servic non-potable joint as far as possible from crossing.	e or main above non- (4-11-06)()
possible from ci	Less than eighteen (18) inches vertical separation or potable <i>water</i> service non-potable service or main constructed with potable water class pipe and non cossing; or, sleeve non-potable <i>pipe</i> service or main with potable water class possing. Use of concrete slurry encasement is not allowed as a substitute for sleep	-potable joint as far as pipe for ten (10) feet
construction fac concerns with th	Existing potable services in relation to new non-potable mains, and existing repotable mains, shall meet the requirements of Subsection 542.07.b., where pretors, and public health significance. If the Department determines that there ese services, such as where a large existing service serves an apartment building shall conform with Subsection 542.07.b.	actical, based on cost, are significant health
# <u>08</u> . minimum horizo	<u>Separation from Subsurface Wastewater Systems and Other Sources</u> ontal distance of twenty-five (25) feet shall be maintained between any <u>potable</u> of the state of twenty-five (25) feet shall be maintained between any <u>potable</u> of the state of twenty-five (25) feet shall be maintained between any <u>potable</u> of the state of twenty-five (25) feet shall be maintained between any <u>potable</u> of the state of twenty-five (25) feet shall be maintained between any <u>potable</u> of the state of twenty-five (25) feet shall be maintained between any <u>potable</u> of the state of twenty-five (25) feet shall be maintained between any <u>potable</u> of the state of twenty-five (25) feet shall be maintained between any <u>potable</u> of the state of twenty-five (25) feet shall be maintained between any <u>potable</u> of the state of twenty-five (25) feet shall be maintained between the state of twenty-five (25) feet shall be maintained between the state of twenty-five (25) feet shall be maintained between the state of twenty-five (25) feet shall be maintained between the state of twenty-five (25) feet shall be maintained between the state of the	

and a septic tank *and* or subsurface *sewage* wastewater disposal system. Guidance on separation from other potential sources of contamination, such as stormwater facilities, may be found at www.deq.idaho.gov/water/assist business/

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engineers/checklists/guidance separation distances.pdf.

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Ī	7	II	-007 (

- **i09. Dead End Mains.** All dead end water mains shall be equipped with a means of flushing and shall be flushed at least semiannually at a water velocity of two and one-half (2.5) feet per second. (4-11-06)(_____)
- $i\underline{a}$. Dead ends shall be minimized by making appropriate tie-ins whenever practical in order to provide increased reliability of service and reduce head loss. (4-11-06)
 - #<u>b</u>. No water main flushing device shall be directly connected to any sewer. (4-11-06)
- **<u>j10.</u>** Repair of Leaks. Leaking water mains shall be repaired or replaced upon discovery and disinfected in accordance with American Water Works Association (AWWA) Standards as set forth in, incorporated by reference into these rules at Subsection $\frac{002.02.k}{002.01}$.
- **<u>k11.</u>** Separation from Structures. Water mains shall be separated by at least five (5) feet from buildings, industrial facilities, and other permanent structures. (5-3-03)(_____)
- #12. Meter Vault Required. All new public water systems shall include a meter vault at each service connection. A lockable shut-off valve shall be installed in the meter vault. This requirement shall also apply to extensions of the distribution system of existing public water systems.
- **m13.** Minimum Pressure at Building Sites. All new public water systems that are constructed where topographical relief may affect water pressure at the customers' premises shall provide the Department with an analysis which demonstrates that the pressure at each designated building site will be at least forty (40) psi, based on dynamic pressure in the main, as set forth in Subsections 552.01.b.i. and ii., plus a static compensation from the elevation of the main to the elevation of each building site.

 (5-3-03)(____)
- ia. If forty (40) psi cannot be provided at each designated building site, the Department may require that reasonable effort be made to provide notification to existing and potential customers of the expected pressure.

 (5-3-03)
- $\frac{ii\mathbf{b}}{\mathbf{b}}$. The Department will not authorize a service connection at any designated building site where analysis indicates that pressure will be less than twenty (20) psi static pressure (or twenty-six point five (26.5) psi for two (2) story buildings). (5-3-03)
- #14. <u>Isolation Valves.</u> A sufficient number of valves shall be provided on water mains to minimize inconvenience and sanitary hazards during repairs. (4-11-06)(____)
- protection. Backflow Protection. Automatic air relief valves shall be equipped with a means of backflow $\frac{(4-11-06)(}{}$
- **p16.** Surface Water Crossings. Surface water crossings, whether over or under water, shall be constructed as follows: (4-11-06)(_____)
- #a. Above water crossings: the pipe shall be adequately supported and anchored, protected from damage and freezing, and shall be accessible for repair or replacement. (4-11-06)
- $\frac{ii}{b}$. Under water crossings: A minimum cover of two (2) feet shall be provided over the pipe. When crossing a water course that is greater than fifteen (15) feet in width, the following shall be provided: (4-11-06)
- (1)<u>i.</u> The pipe shall be of special construction, having flexible, restrained, or welded water-tight joints; and (4-11-06)
- (2)ii. Valves shall be provided at both ends of water crossings so that the section can be isolated for testing or repair; the valves shall be easily accessible and not subject to flooding; and (4-11-06)
 - (3)iii. Permanent taps or other provisions to allow insertion of a small meter to determine leakage and

obtain water samples shall be made on each side of the valve closest to the supply source.

(4-11-06)

543. FACILITY AND DESIGN STANDARDS - CROSS CONNECTION CONTROL.

- **67.** Cross Connection. There shall be no connection between the distribution system and any pipes, pumps, hydrants, water loading stations, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into a public water system.

 (4-11-06)(____)
- a. All suppliers of water for community water systems shall implement a cross connection control program to prevent the entrance of toxic or hazardous substances to the system. Reference should be made to the AWWA "Cross Connection Control Manual," as specified in Subsection 002.02.n. of these rules. The program will include:

 (4-6-05)
- i. An inspection once a year of all facilities listed in Subsection 900.02 (Table 2) to locate cross connections and determine required suitable protection. For new connections, suitable protection must be installed prior to providing water service.

 (5-3-03)
- ii. Required installation and operation of adequate backflow prevention assemblies. A selection chart for various facilities, fixtures, equipment, and uses of water is provided in Subsection 900.02 (Table 2). (4-6-05)
- iii. Annual inspections and testing of all installed backflow prevention assemblies by a tester licensed by a licensing authority recognized by the Department. (4-6-05)
- iv. Discontinuance of service to any facility where suitable backflow protection has not been provided for a cross connection.

 (12-10-92)
- pressure principle backflow prevention assemblies and/or reduced pressure principle backflow prevention assemblies and/or pressure vacuum breakers are used, they must pass a performance test conducted by the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research, and In addition, they shall meet the American Water Works Association (AWWA) Standards C-510 or C-511 standard, incorporated by reference into these rules at Subsection 002.01, or an equivalent standard approved by the Department.
- breakers are used, they shall be marked approved by the International Association of Plumbing and Mechanical Officials (IAPMO) or by the American Society of Sanitation Engineers (ASSE). Pressure vacuum breakers must pass a performance test conducted by the University of Southern California Foundation for Cross Connection Control and Hydraulic Research.
- vii03. Resilient Seated Shutoff Valves. Resilient seated shutoff valves shall be used after the effective date of these rules when double check valves backflow prevention assemblies, reduced pressure principle backflow prevention assemblies, and pressure vacuum breakers are installed.

 (5 3 03)
- <u>04.</u> <u>Reference Selection Chart.</u> Reference may be made to a selection chart for various facilities, fixtures, equipment, and uses of water provided in Subsection 900.02 (Table 2).()
- b. All suppliers of water for non-community water systems shall ensure that cross-connections do not exist or are isolated from the potable water system by an approved backflow prevention assembly. Backflow prevention assemblies shall be inspected for functionality on a regular basis by a licensed tester, as specified in Subsection 550.07.a.iii. (4-6-05)
- 08. Water Storage reservoirs shall be constructed and maintained so that the following requirements are met:
 - **a.** All storage reservoirs shall be protected from flooding; (12-10-92)
 - **b.** Stored water shall be protected from contamination; (12-10-92)

- i. No public water supply storage tank shall be located within five hundred (500) feet of any municipal or industrial wastewater treatment plant or any land which is spray irrigated with wastewater or used for sludge disposal.

 (5-3-03)
- ii. No storage tank or clear well located below ground level is allowed within fifty (50) feet of a sanitary sewer or septic tank. However, if the sanitary sewer is constructed to water main standards, the minimum separation distance is ten (10) feet.

 (5-3-03)
 - e. All storage reservoirs shall have watertight roofs or covers and be sloped so that water will drain; (12-10-92)
- d. Manholes shall be fitted with an overlapping watertight locked cover and be at least four (4) inches above the surface of the roof. At least two (2) manholes located above the water line shall be provided where space permits.

 (5-3-03)
 - e. Overflows shall be downturned, discharge to daylight, and be provided with either: (4-6-05)
 - i. A twenty-four (24) mesh noncorrodible screen installed within the pipe when practical, or; (4-6-05)
 - ii. An expanded metal screen installed within the pipe plus a weighted flapper valve, or; (4-6-05)
 - iii. An equivalent system acceptable to the Department. (4-6-05)
- f. Drains shall discharge to daylight in a way that will preclude the possibility of backflow to the reservoir and, where practical, be provided with an expanded metal screen installed within the pipe that will exclude rodents and deter vandalism.

 (4-6-05)
- g. Any vent shall extend twelve (12) inches above the roof and be constructed and screened to exclude rain, snow, birds, animals, insects, dust and other potential sources of contamination; (12-10-92)
- **h.** The bottom of any reservoir located below the ground surface shall be constructed a minimum of four (4) feet above the high groundwater table; and (12-10-92)
- i: There shall be a minimum distance of fifty (50) feet between any buried or partially buried storage reservoir and any sanitary sewers, storm sewers, or any other source of contamination. The area around ground level reservoirs shall be graded in a manner that will prevent standing water within ten (10) feet. (5-3-03)
- j. Hydroneumatic (pressure) tanks shall be acceptable for small water systems serving up to one hundred fifty (150) homes. (5-3-03)
- **k.** Removable silt stops shall be provided to prevent sediment from entering the reservoir discharge pipe. (5-3-03)
- *l.* All unused subsurface storage tanks shall be removed and backfilled, or abandoned by extracting residual fluids and filling the structure with sand or fine gravel. (5-3-03)

544. FACILITY AND DESIGN STANDARDS - GENERAL DESIGN OF FINISHED WATER STORAGE.

The materials and designs used for finished water storage structures shall provide stability and durability as well as protect the quality of the stored water. Steel structures such as steel tanks, standpipes, reservoirs, and elevated tanks shall be designed and constructed in accordance with applicable AWWA Standards, incorporated by reference into these rules at Subsection 002.01. Other materials of construction are acceptable when properly designed to meet the requirements of Section 544.

<u>01.</u> <u>Sizing.</u> Storage facilities shall have sufficient capacity, as determined from engineering studies, to meet peak daily domestic demands and fire flow demands where provided. The minimum storage capacity shall be

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	engineering analysis of peak day water demand characteristics and be no less than the average da	
Storage" in Section	ad storage and operational storage, as defined under the term "Components of Finished Wa ion 003. This requirement may be reduced when the source and treatment facilities have suffici-	<u>ter</u>
	ndby power to supply peak demands of the system.	<u> </u>
eapacity with sta	index power to supply peak demands of the system.	
<u>02.</u> ensures structura	<u>Location</u> . Storage facilities shall be located in a manner that protects against contaminated stability, and protects against flooding.	<u>on,</u>)
<u>a.</u> placed above the	If the bottom elevation of a storage reservoir must be below normal ground surface, it shall seasonal high ground water table.	<u>be</u>)
	Sewers, drains, standing water, and similar sources of possible contamination must be kept at least the reservoir, except that gravity sewers constructed of water main quality pipe are allowed 20) feet from the reservoir.	
<u>c.</u> municipal or inds sludge disposal.	No public water supply storage tank shall be located within five hundred (500) feet of a ustrial wastewater treatment plant or any land which is spray irrigated with wastewater or used (
d. ground surface.	The top of a partially buried storage structure shall not be less than two (2) feet above norm	nal)
	Protection from Contamination. All finished water storage structures shall have suita which exclude birds, animals, insects, and excessive dust. The installation of appurtenances, such be done in a manner that ensures no damage to the tank, coatings or water quality, or corrects a street.	as
04. shall be provided	Protection from Trespassers. Fencing, locks on access manholes, and other necessary precaution to prevent trespassing, vandalism, and sabotage.	<u>)</u>
	Drains . No drain on a water storage structure may have a direct connection to a sewer or storage in shall allow draining the storage facility for cleaning or maintenance without causing loss estribution system.	
backflow to the atthat will exclude	Overflow. Overflow pipes shall discharge to daylight in a way that will preclude the possibility reservoir and, where practical, be provided with an expanded metal screen installed within the prodents and deter vandalism.	<u>of</u> ipe)
<u>a.</u>	When an internal overflow pipe is used on elevated tanks, it shall be located in the access tube.	_)
installed within	The overflow for a ground-level storage reservoir shall open downward and be screened with mesh noncorrodible screen installed within the pipe when practical, or an expanded metal screened the pipe plus a weighted flapper valve, or an equivalent system acceptable to the Department in provision to prevent erosion shall be provided at the base of the overflow.	en
	The overflow pipe shall be of sufficient diameter to permit waste of water in excess of the fillips shall be brought down to an elevation between twelve (12) and twenty-four (24) inches abound discharge over a drainage inlet structure or a splash plate.	
<u>07.</u> the interior for c	Access. Finished water storage structures shall be designed with reasonably convenient access leaning and maintenance. At least two (2) manholes shall be provided above the waterline at each where space permits.	
<u>a.</u>	The following access requirements apply to elevated storage structures;)
<u>i.</u>	At least one (1) of the access manholes shall be framed at least four (4) inches above the surface	of

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the roof	at the op	ening. The manholes shall be fitted with a solid water tight cover which overlaps the framed or around the frame at least two (2) inches, shall be hinged on one side, and shall have a least two (2) inches, shall be hinged on one side, and shall have a least two (2) inches, shall be hinged on one side, and shall have a least two (2) inches, shall be hinged on one side, and shall have a least two (2) inches, shall be hinged on one side, and shall have a least two (2) inches, shall be hinged on one side, and shall have a least two (2) inches, shall be hinged on one side.	pening
device.	enas aow	In around the frame at least two (2) inches, shall be minged on one side, and shall have a lo	(<u>)</u>
the revie	<u>ii.</u> ewing aut	All other manholes or access ways shall be bolted and gasketed according to the requirements, or shall meet the requirements of the Subsection 544.07.a.i.	ents of
	<u>b.</u>	The following access requirements apply to ground level storage structures:	()
covering	<u>i.</u> g sod, wh	Each manhole shall be elevated at least twenty-four (24) inches above the top of the trichever is higher.	ank or
		Each manhole shall be fitted with a solid water tight cover which overlaps a framed opening ound the frame at least two (2) inches. The frame shall be at least four (4) inches high. Each none side, and shall have a locking device.	
a vent. C	08. Open con	<u>Vents</u> . Finished water storage structures shall be vented. The overflow pipe shall not be construction between the sidewall and roof is not permissible. Vents shall:	idered
	<u>a.</u>	Prevent the entrance of surface water and rainwater and extend twelve (12) inches above the	<u>roof.</u> ()
	<u>b.</u>	Exclude birds and animals.	()
	<u>c.</u>	Exclude insects and dust, as much as this function can be made compatible with effective ve	nting.
		On ground-level structures, open downward with the opening at least twenty-four (24) r sod and covered with twenty-four (24) mesh non-corrodible screen. The screen shall be in tallocation least susceptible to vandalism.	
screen.	<u>e.</u>	On elevated tanks and standpipes, open downward, and be fitted with four (4) mesh non-corn	odible
or pipin		Roof and Sidewall . The roof and sidewalls of all water storage structures must be watertiglept properly constructed vents, manholes, overflows, risers, drains, pump mountings, control low and outflow. Particular attention shall be given to the sealing of roof structures which and body.	l ports,
properly place du	a. gasketed ring the	Any pipes running through the roof or sidewall of a metal storage structure must be weld. In concrete tanks, these pipes shall be connected to standard wall castings which were porforming of the concrete.	led, or ured in ()
columns drainage		Openings in the roof of a storage structure designed to accommodate control apparatus or curbed and sleeved with proper additional shielding to prevent contamination from surface or curbed and sleeved with proper additional shielding to prevent contamination from surface or curbed and sleeved with proper additional shielding to prevent contamination from surface or curbed and sleeved with proper additional shielding to prevent contamination from surface or curbed and sleeved with proper additional shielding to prevent contamination from surface or curbed and sleeved with proper additional shielding to prevent contamination from surface or curbed and sleeved with proper additional shielding to prevent contamination from surface or curbed and sleeved with proper additional shielding to prevent contamination from surface or curbed and sleeved with proper additional shielding to prevent contamination from surface or curbed and sleeved with proper additional shielding to prevent contamination from surface or curbed and sleeved with proper additional shielding to prevent contamination from surface or curbed and sleeved with proper additional shielding to prevent contamination from surface or curbed and sleeved with the sleep and the s	
		The roof of the storage structure shall be sloped to facilitate drainage. Downspout pipes shough the reservoir. Parapets, or similar construction which would tend to hold water and snow approved unless adequate waterproofing and drainage are provided.	
waterpro	d. oof memb	Reservoirs with pre-cast concrete roof structures must be made watertight with the usebrane or similar product.	<u>e of a</u>
		Construction Materials. Materials used in storage facility construction shall measure contact surfaces set forth in Subsection 501.01. Porous materials such as wood or competable for use in storage construction.	et the oncrete

the riser	11.	<u>Protection from Freezing</u> . Finished water storage structures and their appurtenances, especial overflows, and vents, shall be designed to prevent freezing which will interfere with projections.	
function		()
with seal	12. led raised	Internal Catwalk. Every catwalk over finished water in a storage structure shall have a solid fled edges, designed to prevent contamination from shoe scrapings and dirt.	<u>oor</u>
discharge	13. e pipe.	Silt Stops. Removable silt stops shall be provided to prevent sediment from entering the reserv	<u>oir</u>
prevent s	14. surface w	Grading. The area surrounding a ground-level structure shall be graded in a manner that water from standing within fifty (50) feet of it.	vill)
other pro	15. otective o	Coatings and Cathodic Protection. Proper protection shall be given to metal surfaces by paints coatings, by cathodic protective devices, or by both.	<u>or</u>
	our (24)	<u>Disinfection</u> . Storage facilities shall be disinfected in accordance with AWWA Standard C6: reference into these rules at Subsection 002.01. Two (2) or more successive sets of samples, taken hour intervals, shall indicate microbiologically satisfactory water before the facility is placed in (ı at
abandon	17. ed by ex	Abandonment. All unused subsurface storage tanks shall be removed and backfilled, tracting residual fluids and filling the structure with sand or fine gravel.	<u>or</u>)
<u>545.</u> The desi		ITY AND DESIGN STANDARDS - TREATMENT PLANT STORAGE FACILITIES. ards of Section 544 shall apply to treatment plant storage.	_)
		Filter Wash Water. Filter wash water tanks shall be sized, in conjunction with available put I water storage, to provide the backwash water required by Section 521. Consideration must be giving of several filters in rapid succession.	
attention clearwel	l compar	Clearwell. When finished water storage is used to provide disinfectant contact time spece given to tank size and baffling. An overflow and vent shall be provided. A minimum of two timents shall be provided. Clearwells constructed under filters may be exempt from the requirement tion 544.02.d. when the design provides adequate protection from contamination.	(2)
		Adjacent Storage. Finished or treated water must not be stored or conveyed in a compartment ated or partially treated water when the two (2) compartments are separated by a single wall, unleave viewing authority.	ent ess)
		Other Treatment Plant Storage Tanks. Unless otherwise allowed by the reviewing authority plant storage tanks/basins such as detention basins, backwash reclaim tanks, receiving basins, a for finished water shall be designed as finished water storage structures.	
<u>546.</u>	FACIL	ITY AND DESIGN STANDARDS - DISTRIBUTION SYSTEM STORAGE FACILITIES.	
storage.	<u>01.</u>	<u>Design</u> . The applicable design standards of Section 544 shall be followed for distribution systematical systems.	<u>em</u>)
system s		Isolation. Finished water storage structures which provide pressure directly to the distribution signed so they can be isolated from the distribution system and drained for cleaning or maintenant a loss of pressure in the distribution system.	ion nce)
the reser		Drain . Drains shall discharge to daylight in a way that will preclude the possibility of backflow l, where practical, be provided with an expanded metal screen installed within the pipe that wand deter vandalism.	

storage	04. structure	Level Controls. Adequate controls shall be provided to maintain levels in distribution system s. Level indicating devices shall be provided at a central location.
These t	neumatic anks do	ATTY AND DESIGN STANDARDS - HYDROPNEUMATIC TANK SYSTEMS. E tanks use compressed air to regulate pump cycling and to absorb pressure surges (water hammer). Into provide true storage. Systems serving more than one-hundred-fifty (150) homes are generally providing reservoir storage, as set forth in Sections 544 and 547.
	<u>01.</u>	General Design of Hydropneumatic Systems. ()
	<u>a.</u>	Tanks shall be located above normal ground surface and be completely housed. ()
		Tanks shall have bypass piping to permit operation of the system while the tank is being repaired or surfaces and accessible interior surfaces shall be provided with protective coatings and shall be odd condition. Supports beneath tanks shall be structurally sound.
in syste manual Design	ms with , reference Manual,	Tanks shall be sized to limit pump cycles to not more than six (6) per hour unless a pump warranty specifically supports more frequent cycling. The number of pump cycles may be increased multiple pumps if a means to automatically alternate pumps is provided. The Franklin Electric AIM ced in Subsection 002.02, Chapter 11 of the Washington State Department of Health Water System referenced in Subsection 002.02, or manufacturer's recommendations may be used as guidance in ize of hydropneumatic tanks.
hundred	l twenty	Tanks of greater than one-hundred twenty (120) gallons volume shall conform with the American nanical Engineers (ASME) specifications code for unfired pressure vessels. Tanks of less than one (120) gallons volume shall meet the ASME code or be certified by a nationally recognized testing table of withstanding twice the maximum allowable working pressure.
that hav water.	<u>02.</u> ve a direc	Requirements Specific to Conventional Hydropneumatic Tanks. Conventional tanks are those tair to water interface and require periodic air recharge to compensate for absorption of air into the
from co	ntaminat	Each tank shall have an access manhole, a drain, and control equipment consisting of a pressure ht glass, automatic or manual air blow-off, means for adding air that is filtered or otherwise protected ion, and pressure operated start-stop controls for the pumps. If tank size allows, the access manhole eventy-four (24) inches in diameter.
required specific		The gross volume of tanks in systems served by variable speed pumps may be less than that ems served by constant speed pumps. Design volumes shall be approved by the Department on a site-
water ir	03. uside the	Requirements Specific to Bladder Tanks. Bladder tanks have a membrane that separates air and tank.
the pun	a. np turns c	Bladder tanks must be pre-charged with air to a pressure of five (5) psi below the setting at which on (the low operating pressure for the system).
the pun	b. nps.	Each manifold assembly shall have a pressure gauge and pressure operated start-stop controls for ()
are nee approve	c. ded to pred by the	The procedure for sizing bladder tanks is to determine the number of a selected size of tanks that rovide pump protection. Reduced tank volume in systems served by variable speed pumps shall be Department on a site specific basis.
548.	FACIL	ITY AND DESIGN STANDARDS - DISINFECTION OF FACILITIES PRIOR TO USE.

- 10. Violations. Any failure to comply with any provision contained in Section 550 shall be considered a design or construction defect. (12-10-92)

551. FACILITY AND DESIGN STANDARDS -- CONSTRUCTION REQUIREMENTS FOR PUBLIC WATER SYSTEMS.

- **01.** Engineering Report. For all new water systems or material modifications to existing water systems, an engineering report shall be submitted for review and approval by the Department, or other reviewing authority in the case of water main extensions, prior to or concurrent with the submittal of plans and specifications as required in Subsection 551.04. This report shall provide the following information:

 (4-11-06)
 - a. A general description and location of the project; (12-10-92)
 - **b.** The estimated design population of the project; (12-10-92)
- e. Design data for domestic, irrigation, fire fighting, commercial and industrial water uses, including maximum hourly, maximum daily, and average daily demands; (12-10-92)
 - d. Storage requirements; (12-10-92)
 - e. Pressure ranges for normal and peak flow conditions; (12-10-92)
- f. A computer analysis of the hydraulies of the distribution system if requested by the Department; any analysis of an existing distribution system shall be properly calibrated.

 (5-3-03)
- g. Adequacy, quality and availability of sources of water. A water system that is to be served by a separate non-potable irrigation system must provide documentation of legal water rights sufficient to ensure that the irrigation system will not compete with or in any way diminish the source of water for the potable water system.

(5-3-03)

- **h.** Describe the sewerage system and sewage treatment works, with special reference to their relationship to existing or proposed water works structures which may affect the operation of the water supply system, or which may affect the quality of the supply.

 (4-11-06)
- i. Characterize the various wastes from the water treatment plant, if applicable, their volume, constituents, proposed treatment and disposal. If discharging to a sanitary sewerage system, verify that the system is capable of handling the flow to the treatment works and that the treatment works is capable and willing to accept the additional loading.

 (4-11-06)
- *f.* For a community system, results of analysis for total coliform, inorganic chemical contaminants, organic chemicals, and radionuclide contaminants set forth in Subsections 050.01, 050.02, 050.05, 100.01, 100.03, 100.04, 100.05, and 100.06, unless analysis is waived pursuant to Subsection 100.07. (5-3-03)
- **k.** For a nontransient noncommunity system, results of analysis for total coliform and inorganic and organic chemical contaminants listed in Subsections 050.01, 050.02, 100.01, 100.03, 100.04, unless analysis is waived pursuant to Subsection 100.07.
- *For a transient noncommunity system, results of a total coliform, nitrite, and nitrate analysis listed in Subsections 050.01, 100.01 and 100.03.*(5-3-03)
- m. For any system supplied by surface water or groundwater under the direct influence of surface water, results of turbidity analysis listed in Subsection 100.02. (12-10-92)

n.	Tor an new E	zroundwater source	s, including bu	u noi umuea i	o wens, springs,	ana injuiration
galleries, systen	ıs shall supply in	iformation as requir	ed by the Depai	rtment to detern	nine if these sourc	es are under the
direct influence	of the surface we	ater.				(12-10-92)

	Dotantial sources				(12 10 02)
0.	Totential sources o	r comunimination to p	moposeu sources or	water,	12-10-721

q. In addition to the items listed in Subsections 551.01.a. through 551.01.p., the following information must be provided for proposed surface water sources and groundwater sources under the direct influence of surface water:

(4-11-06)

i.	Hydrological and historical stream flow data;	(4-11-06)
	11) and to great and mistorican stream from action,	(. 11 00)

- iv. Treatment selection process and alternative evaluations. (12-10-92)
- **r.** In addition to the items listed in Subsections 551.01.a. through 551.01.n., the following information must be provided for a proposed groundwater source: (12-10-92)
- i. A site evaluation report as required in Subsection 550.03.a. for wells and Subsection 550.04 for springs;

 (5-3-03)

- iii. Underground geological data and existing well logs. (12-10-92)
- iv. If the water is to be treated, summarize the adequacy of proposed processes and unit parameters for the treatment of the specific water. Bench scale testing, pilot studies, or demonstrations of treatment adequacy may be required.

 (4-11-06)
- s. Generally discuss soil, ground water conditions, and potential building foundation problems, including a description of:

 (4-11-06)
 - i. The character of the soil through which water mains are to be laid; (4-11-06)
 - ii. Foundation conditions prevailing at sites of proposed structures; and (4-11-06)
 - iii. The approximate elevation of ground water in relation to subsurface structures. (4-11-06)
- **Ownership.** Documentation of the ownership and responsibility for operating the proposed system shall be made available to the Department prior to or concurrent with the submittal of plans and specifications as required in Subsection 551.04. The documentation must show organization and financial arrangements adequate to assure construction, operation and maintenance of the system according to these rules. Documentation shall also include the name of the water system, the name, address, and phone number of the supplier of water, the system size, and the name, address, and phone number of the system operator.

 (10-1-93)
- 03. Connection to an Existing System. If the proposed project is to be connected to an existing public water system, a letter from the purveyor must be submitted to the Department stating that they will be able to provide services to the proposed project. This letter must be submitted prior to or concurrent with the submittal of plans and specifications as required in Subsection 551.04.

 (12-10-92)
 - 04. Review of Plans and Specifications. "Recommended Standards for Water Works, A Report of the

Water Supply Committee of the Great lakes-Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers" except Parts One (1) and Eight (8), and all applicable laws, rules, and standards shall be applied in the review of plans and specifications for public water system facilities. With respect to water main extensions, as defined in Section 003, these rules shall apply. "Idaho Guidance for Public Drinking Water Systems" shall be used only to provide assistance in applying and interpreting these rules. (4-11-06)

- **a.** Prior to construction of new public drinking water systems, new drinking water systems designed to serve ten (10) or more service connections, or material modifications of existing public water systems, plans and specifications must be submitted to the Department for review and approval. Plans and specifications for water main extensions shall not require pre-construction approval by the Department when such extensions will be owned and operated by a city, county, quasi-municipal corporation or regulated public utility, provided that such plans and specifications are reviewed and approved by a qualified Idaho licensed professional engineer who was not involved in the preparation of the plans and specifications being reviewed to verify compliance with the requirements of these rules prior to initiation of construction.

 (4-11-06)
- **b.** The Department shall review plans and specifications to determine compliance with these rules and engineering standards of care. If the plans and specifications comply with these rules and engineering standards of care, the Department shall not substitute its judgement for that of the owner's design engineer concerning the manner of compliance with the rule.

 (4-11-06)
- e. The Department shall review plans and specifications and endeavor to resolve design issues within forty-two (42) calendar days of submittal such that approval can be granted. If the Department and applicant have not resolved design issues within forty-two (42) calendar days or at any time thereafter, the applicant may file a written demand to the Department for a decision. Upon receipt of such written demand, the Department shall deliver a written decision to the applicant within no more than seven (7) calendar days explaining any reasons for disapproval. The Department shall maintain records of all written demands for decision made pursuant to Subsection 551.04.c. with such records including the final decision rendered and the timeliness thereof. (4-11-06)
- **d.** Plans and specifications shall be submitted by an Idaho registered professional engineer and bear the imprint of the engineer's seal; except that the Department will accept the seal of an Idaho registered professional geologist on the following:

 (5-3-03)
 - i. Well or spring source site evaluation reports, as specified in Subsections 550.03.a. and 550.04.

 (5-3-03)
- ii. Plans and specifications for well construction and results of field inspection and testing, as specified in Subsections 550.03.e. and 550.03.f. (5-3-03)
 - e. Plans and specifications shall, where pertinent, provide the following: (4-11-06)
 - i. General layout, including: (4-11-06)
 - (1) Suitable title; (4-11-06)
 - (2) Name of municipality or other entity or person responsible for the water supply; (4-11-06)
 - (3) Area or institution to be served; (4-11-06)
 - (4) Scale of drawings; (4-11-06)
 - (5) *North point*; (4-11-06)
 - (6) Datum used; (4-11-06)
 - (7) General boundaries of municipality or area to be served; (4-11-06)
 - (8) Date, name, and address of the designing engineer; (4-11-06)

(9) Legible prints suitable for reproduction; (4-11-06)(10)Location and size of existing water mains, if applicable; and (4-11-06)(11)For systems undergoing material modification, location and nature of existing water works structures and appurtenances affecting the proposed improvements. (4-11-06)(4-11-06)Detailed plans, including: ii. (1)Stream crossings, providing profiles with elevations of the stream bed and the estimated normal and extreme high and, where appropriate, low water levels; (4-11-06)Location and size of the property to be used for the development with respect to known references $\left(2\right)$ (4-11-06)such as roads, streams, section lines, or streets; (3)Topography and arrangement of present or planned wells or structures; (4-11-06)Elevations of the one hundred (100) year flood level in relation to the floor of structures, upper termination of protective casings, and grade surrounding facilities; Details of well construction, including diameter and depth of drill holes, casing and liner diameters and depths, grouting depths, elevations, and designation of geological formations, water levels and other data as specified in Šubsection 550.03.e; (4-11-06)(6)Location of all known existing and potential sources of pollution which may affect the water source (4-11-06)or underground treated storage facilities; (7)Size, length, and materials of proposed water mains; (4-11-06)(8) Location of existing or proposed streets; water sources, ponds, lakes, and drains; storm sanitary, combined and house sewers; septic tanks, disposal fields and cesspools; (4-11-06)(9) Schematic flow diagrams and hydraulic profiles showing the flow through various plant units; (4-11-06) (10)Piping in sufficient detail to show flow through the plant including waste lines; (4-11-06)(11) Locations of all chemical storage areas, feeding equipment, and points of chemical application; (4-11-06)All appurtenances, specific structures, equipment, water treatment plant waste disposal units and (4-11-06)points of discharge having any relationship to the plans for water mains or water works structures; Locations of sanitary or other facilities, such as lavatories, showers, toilets, and lockers, when (13)applicable or required by the Department; (4-11-06)(4-11-06)Locations, dimensions, and elevations of all proposed plant facilities; (14)(15)Locations of all sampling taps; and (4-11-06)(16)Adequate description of any significant features not otherwise covered by the specifications that may impact public safety or welfare. (4-11-06)

iii.

Complete, detailed technical specifications shall be supplied for the proposed project, including:

(4-11-06)

- (1) A program for keeping existing water works facilities in operation during construction of additional facilities so as to minimize interruption of service; (4-11-06)
 - (2) Laboratory facilities and equipment; (4-11-06)
 - (3) Description of chemical feeding equipment; (4-11-06)
- (4) Procedures for flushing, disinfection and testing, as needed, prior to placing the project in service; and (4-11-06)
- (5) Materials or proprietary equipment for sanitary or other facilities, including any necessary backflow or back-siphonage protection. (4-11-06)
 - iv. Complete design criteria, as set forth in these rules. (4-11-06)
- v. The Department may require additional information which is not part of the construction drawings, including but not limited to head loss calculations, proprietary technical data, and copies of contracts, (4-11-06)
- f. Except for water main extensions, as set forth in Subsection 551.04.a., during construction or modification, the Department must be notified of any material deviation from the approved plans. The Department's prior written approval is required before any material deviation is allowed.

 (4-11-06)
- g. Within thirty (30) calendar days of the completion of construction of facilities for which plans are required to be reviewed pursuant to Subsection 551.04.a., record plans and specifications based on information provided by the construction contractor and field observations made by the engineer or the engineer's designee depicting the actual construction of facilities performed, must be submitted to the Director by the engineer representing the city, county, quasi-municipal corporation or regulated public utility that owns the project, or by the design engineer or owner-designated substitute engineer if the facilities will not be owned and operated by a city, county, quasi-municipal corporation or regulated public utility. Such submittal by the professional engineer must confirm material compliance with the approved plans and specifications or disclose any material deviations therefrom. If the construction does not materially deviate from the approved plans and specifications, the owner may have a statement to that effect prepared by a qualified Idaho licensed professional engineer and filed with the Department in lieu of submitting a complete and accurate set of record drawings.

 (4-11-06)
- 05. Exception. A District Health Department may exclude noncommunity water systems from the Department's plan and specification review if the District has reviewed the project and will inspect it during construction. The Department may waive the plan and specification approval required of any particular facility or category of facilities when doing so will have no significant impact on public health or the environment. (4-11-06)
- **96.** Construction. No construction shall commence until all of the necessary approvals have been received from the Department. (12-10-92)
- **87.** Source. Before a public water system uses a new source of water to provide water to consumers, the source shall be approved by the Department. (12-10-92)
- **08.** Installation of Water Mains. Division 400 of "Idaho Standards for Public Works Construction," as specified in Subsection 002.02.p., may be used as guidance for installation of water mains. In addition, the following provisions shall apply:

 (4-11-06)
- **a.** Installed pipe shall be pressure tested and leakage tested in accordance with the applicable AWWA Standards or manufacturer's standard for high-density polyethylene. (4-11-06)
- **b.** New, cleaned, and repaired water mains shall be disinfected in accordance AWWA Standard C651. The specifications shall include detailed procedures for the adequate flushing, disinfection, and microbiological testing of all water mains.

 (4-11-06)
 - e. In areas where aggressive soil conditions are suspected or known to exist, analyses shall be

performed to determine the actual agressiveness of the soil. If soils are found to be aggressive, action shall be taken to protect metallic joint restraints and the water main, such as encasement in polyethylene, provision of cathodic protection, or use of corrosion resistant materials.

(4-11-06)

- **d.** The Department must approve any interconnection between potable water supplies, taking into account differences in water quality between the two (2) systems.

 (4-11-06)
- e. A continuous and uniform bedding shall be provided in the trench for all buried pipe. Backfill material shall be tamped in layers around the pipe and to a sufficient height above the pipe to adequately support and protect the pipe. Stones found in the trench shall be removed for a depth of at least six (6) inches below the bottom of the pipe.

 (4-11-06)
 - f. Water mains shall be covered with sufficient earth or other insulation to prevent freezing. (4-11-06)
- g. All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement.

 (4-11-06)
- 99. Well Abandonment. Any water supply well that will no longer be used must be abandoned by sealing the borehole carefully to prevent pollution of the groundwater, eliminate any physical hazard, conserve aquifer yield, maintain confined head conditions in artesian wells, and prevent mixing of waters from different aquifers. The objective of proper well abandonment procedures is to restore, as far as possible, the original hydrogeologic conditions. The services of a licensed well driller are required. Instructions for abandoning various types of wells may be obtained from the Idaho Department of Water Resources.

 (5-3-03)

<u>549. -- 551.</u> (RESERVED).

552. FACILITY AND DESIGN STANDARDS -- OPERATING CRITERIA FOR PUBLIC WATER SYSTEMS.

01. Quantity and Pressure Requirements.

(12-1-92)

- **a.** Minimum Quantity. The capacity of a public drinking water system shall in no instance be less than eight hundred (800) gallons per day per residence, plus irrigation flows. (5-3-03)
- b. Minimum Pressure. If the Department receives a complaint from a customer or customers of a public drinking water system regarding inadequate or excessive pressure, the Department may, after initial investigation by the water system or the Department, require the public water system to conduct a local pressure monitoring study to diagnose and correct pressure problems.

 (12-1-92)(_____)
- i. Any public water system shall be capable of providing sufficient water during *maximum* peak hourly demand conditions. (including fire flow) to maintain a minimum pressure of twenty (20) psi throughout the distribution system, at ground level, as measured at the service connection or along the property line adjacent to the consumer's premises.

 (4-11-06)(_____)
- ii. Any public water system constructed or significantly modified after July 1, 1985, shall maintain a minimum pressure of forty (40) psi throughout the distribution system, during *maximum* peak hourly demand conditions, excluding fire flow, measured at the service connection or along the property line adjacent to the consumer's premises.

 (4-11-06)(____)
- (1) Existing water systems that are planning to expand their service area shall meet the criteria in Subsections 552.01.b.i. and 552.01.b.ii. in the new service area. (4-11-06)
- (2) Compliance with these requirements by water systems that do not have a meter vault or other point of access at the service connection or along the property line adjacent to the consumer's premises where pressure in the distribution system can be reliably measured shall be determined by measurements within the consumer's premises, or at another representative location acceptable to the Department. (5-3-03)

- iv. The Department may allow the installation of booster pump systems at individual service connections on a case by case basis. However, such an installation may only occur with the full knowledge and agreement of the public water system, including assurance by the water system that the individual booster pump will cause no adverse effects on system operation. (4-11-06)
- v. When pressures within the system are known to have fallen below twenty (20) psi, the water system must provide public notice and disinfect the system. (5-3-03)
- **c.** Fire Flows. Any public water system designed to provide fire flows shall ensure that such flows are compatible with the water demand of existing and planned fire fighting equipment and fire fighting practices in the area served by the system. (5-3-03)

d. Irrigation Flows. (12-1-92)

- i. Any public water system constructed after November 1, 1977, shall be capable of providing water for uncontrolled, simultaneous foreseeable irrigation demand, which shall include all acreage that the system is designed to irrigate. (5-3-03)
- (1) The Department must concur with assumptions regarding the acreage to be irrigated. In general, an assumption that no outside watering will occur is considered unsound and is unlikely to be approved. (5-3-03)
- (2) An assumption of minimal outside watering, as in recreational subdivisions, may be acceptable if design flows are adequate for maintenance of "green zones" for protection against wildland fire. (5-3-03)
 - ii. The requirement of Subsection 552.01.d.i. may be modified by the Department if: (5-3-03)
 - (1) A separate irrigation system is provided; or (12-10-92)
- (2) The supplier of water can regulate the rate of irrigation through its police powers, and the water system is designed to accommodate a regulated rate of irrigation flow. The Department may require the water system to submit a legal opinion addressing the enforceability of such police powers. (5-3-03)
- iii. If a separate nonpotable irrigation system is provided for the consumers, all mains, hydrants and appurtenances shall be easily identified as nonpotable. The Department must concur with a plan to ensure that each new potable water service is not cross-connected with the irrigation system. (5-3-03)
- **92.** Additives. No chemical or other substance shall be added to drinking water, nor shall any process be utilized to treat drinking water, unless specifically approved by the Department. All chemicals shall conform to applicable American Water Works Association Standards as set forth in Subsection 002.02.k., and be listed as approved under ANSI/NSF standard 60 or 61, as specified in Subsections 002.02.l. and 002.02.m. (4-11-06)

032. Ground Water. (12-10-92)

- **a.** Public water systems constructed after July 1, 1985, and supplied by ground water, shall treat water within the system by disinfection if the groundwater source is not protected from contamination. (12-10-92)
- **b.** The Department may, in its discretion, require disinfection for any existing public water system supplied by ground water if the system consistently exceeds the MCL for coliform, and if the system does not appear adequately protected from contamination. Adequate protection will be determined based upon at least the following

DEPARTMENT OF ENVIRONMENTAL QUALITY Idaho Rules for Public Drinking Water Systems		Docket No. 58-0108-0602 Proposed Rulemaking
factors:		(12-10-92)
i.	Location of possible sources of contamination;	(12-10-92)
ii.	Size of the well lot;	(12-10-92)
iii.	Depth of the source of water;	(12-10-92)
iv.	Bacteriological quality of the aquifer;	(12-10-92)
v.	Geological characteristics of the area; and	(12-10-92)

043. Operating Criteria. The operating criteria for systems supplied by surface water or ground water under the direct influence of surface water shall be as follows: (12-10-92)

Adequacy of development of the source.

- **a.** Each system must develop and follow a water treatment operations plan acceptable to the Department, by July 31, 1993, or within six (6) months of installation of filtration treatment, whichever is later. For a maximum of twelve (12) months, this may be a draft operations plan based on pilot studies or other criteria acceptable to the Department. After twelve (12) months the plan shall be finalized based on full scale operation.

 (12-10-92)
- **b.** The purveyor shall ensure that treatment facilities are operated in accordance with good engineering practices such as those found in the Recommended Standards for Water Works, A Report of the Water Supply Committee of the Great Lakes Upper Mississippi River Board of Public Health and Environmental Managers as set forth in Subsection 002.02.c., or other equal standard designated by the Department. (4-6-05)
- c. New treatment facilities shall be operated in accordance with Subsection 552.043.b., and the system shall conduct monitoring specified by the Department for a trial period specified by the Department before serving water to the public in order to protect the health of consumers served by the system.

 (12-10-92)(_____)
- **054. Chlorination**. Systems that regularly add chlorine to their water are subject to the provisions of Section 320. Systems using surface water or ground water under the direct influence of surface water, are subject to the disinfection requirements of Sections 300 and Subsection 550.05 518. (4-6-05)(____)
- **a.** Systems using only ground water that add chlorine for the purpose of disinfection, as defined in Section 003, are subject to the following requirements: (4-6-05)
- i. Chlorinator capacity shall be such that the system is able to demonstrate that it is routinely achieving four (4) logs (ninety-nine point ninety-nine percent) (99.99%)) inactivation of viruses. The required contact time will be specified by the Department. This condition must be attainable even when the maximum hourly demand coincides with anticipated maximum chlorine demands. (4-6-05)
 - ii. A detectable chlorine residual shall be maintained throughout the distribution system. (4-6-05)
- iii. Automatic proportioning chlorinators are required where the rate of flow is not reasonably constant. (12-10-92)
- iv. Analysis for free chlorine residual shall be made at least daily and records of these analyses shall be kept by the supplier of water for at least one (1) year. The frequency of measuring free chlorine residuals shall be sufficient to detect variations in chlorine demand or changes in water flow. (4-6-05)
 - v. A separate and ventilated room for gas chlorination equipment shall be provided. (12-10-92)
- vi. The Department may, in its discretion, require a treatment rate higher than that specified in Subsection 552.054.a.i. (4-6-05)(____)

vi.

(12-10-92)

vii. in accordance w	When chlorine gas is used, chlorine leak detection devices and safety equipment shall be provided ith the 1992 Recommended Standards for Water Works, as set forth in Subsection 002.02.c. (12-10-92)
b. residual in the difference following requires	Systems using only ground water that add chlorine for the purpose of maintaining a disinfectan distribution system, when the source(s) is not at risk of microbial contamination, are subject to the ements: (4-6-05
i. constant.	Automatic proportioning chlorinators are required where the rate of flow is not reasonably (4-6-05
ii. in chlorine dema	Analysis for free chlorine residual shall be made at a frequency that is sufficient to detect variation and or changes in water flow. (4-6-05)
chlorine residua	Systems using only ground water that add chlorine for other purposes, such as oxidation of metals or control, when the source(s) is known to be free of microbial contamination, must ensure that entering the distribution system after treatment is less than four (4.0) mg/L. The requirements in 0.54.b.ii. also apply if the system maintains a chlorine residual in the distribution system. (4-6-05)(
0 6 <u>5</u> .	Fluoridation. (12-1-92)
a. applicable Amer Subsection 002. approved by the	Commercial sodium fluoride, sodium silico fluoride and hydrofluosilicic acid which conform to the rican Water Works Association (AWWA) Standards, incorporated by reference into these rules a 01, are acceptable as set forth in Subsection 002.02.k. Use of other chemicals shall be specifically Department.
b. the intended dos	The accuracy of chemical feeders used for fluoridation shall be plus or minus five percent (5%) o e. (12-10-92
e <u>b</u> . shall be ventilate	Fluoride compounds shall be stored in covered or unopened shipping containers. Storage area: (12-10-92)(
dc. shall be disposed	Provisions shall be made to minimize the quantity of fluoride dust. Empty bags, drums, or barrels of in a manner that will minimize exposure to flouride dusts. (12-10-92)(
ed. finished water sl (5) years.	Daily records of flow and amounts of fluoride added shall be kept. An analysis for fluoride in nall be made at least weekly. Records of these analyses shall be kept by the supplier of water for five (12-10-92)

prior to providing water service.

referenced in Subsection 002.02. The program will include:

by a licensing authority recognized by the Department. Testing shall be done in accordance with the test procedures published by the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research. See the USC Manual of Cross-Connection Control referenced in Subsection 002.02.

connections and determine required suitable protection. For new connections, suitable protection must be installed

for various facilities, fixtures, equipment, and uses of water is provided in Subsection 900.02 (Table 2).

An inspection once a year of all facilities listed in Subsection 900.02 (Table 2) to locate cross

Required installation and operation of adequate backflow prevention assemblies. A selection chart

Annual inspections and testing of all installed backflow prevention assemblies by a tester licensed

d. Discontinuance of service to any facility where suitable backflow protection has not been provided for a cross connection.

O7. Cross Connection Control Program - Non-Community Water Systems. All suppliers of water for non-community water systems shall ensure that cross connections do not exist or are isolated from the potable water system by an approved backflow prevention assembly. Backflow prevention assemblies shall be inspected for functionality on a regular basis by a licensed tester, as specified in Subsection 552.06.c.

(BREAK IN CONTINUITY OF SECTIONS)

900. TABLES

01. Table 1 -- Minimum Distances From a Public Water System Well.

Minimum Distances from a Public Water System Well					
<u>Gravity</u> sewer line	50 feet				
Pressure sewer line	<u>100 feet</u>				
Individual home septic tank	100 feet				
Individual home disposal field	100 feet				
Individual home seepage pit	100 feet				
Privies	100 feet				
Livestock	50 feet				
Canals, streams, ditches, lakes, ponds and tanks used to store nonpotable substances	50 feet				

(12-10-92)(____)

02. Table 2 -- Selection Chart for Minimum Backflow Prevention Services.

SELECTION CHART FOR MINIMUM BACKFLOW PREVENTION DEVICES						
FACILITIES, FIXTURES, EQUIPMENT, OR USE OF WATER	ATMOSPHERIC TYPE VACUUM BREAKER	PRESSURE TYPE VACUUM BREAKER	DOUBLE CHECK VALVE ASSEMBLY	REDUCED PRESSURE BACKFLOW PREVENTER	AIR GAP	
Animal Watering	X	X		X	Х	
Aspirators, harmful substance	Х	Х		Х	Х	
Autopsy Equipment	Х	Х		Х		
Autoclaves				Х		
Boiler Feeds without harmful chemicals			Х			
Boiler Feeds with harmful chemicals				Х	Χ	
Bed Pan Washers	Х	Х				
Cuspidors, Open Outlet	Х	Х				

SELECTION CHART FOR MINIMUM BACKFLOW PREVENTION DEVICES						
FACILITIES, FIXTURES, EQUIPMENT, OR USE OF WATER	ATMOSPHERIC TYPE VACUUM BREAKER	PRESSURE TYPE VACUUM BREAKER	DOUBLE CHECK VALVE ASSEMBLY	REDUCED PRESSURE BACKFLOW PREVENTER	AIR GAP	
Cuspidors, Valved Outlet		Х				
Dairies and Farms high risk				Х	Х	
Dairies and Farms low risk			X	X	X	
Dishwashers	Х	Х			Х	
Domestic Water Booster Pump on service lines			Х	Х		
Garbage Can Washers		Х			Χ	
Heat Exchangers with transfer fluids			Х	Х		
High Rise Buildings, 3 stories or more, bldgs. on hill			Х	Х		
Irrigation Systems, such as cemeteries, golf courses, playgrounds, parks, estates, ranches, schools, and residential uses with chemicals added				Х	Х	
Irrigation Systems, such as cemeteries, golf courses, playgrounds, parks, estates, ranches, schools, and residential uses without chemicals added	Х	Х	Х			
Laundries with under rim or bottom-fill inlets, dry cleaning, and dye works	Х	Х		Х	Х	
Mobile Home and RV Parks with nonapproved waste valves		Х	Х	Х		
Mobile Home and RV Parks with below ground level service line termination				Х		
Fixing Tees with steam and water used with harmful substances				Х		
Fixing Tees with steam and water used without harmful substances			Х			
Private Water Sources which are unmonitored				Х		
Radiator-Vats				Х	Χ	
Slaughter Houses				Х		
Car Washes using soaps and waxes			Х	Х		
Chemical Plants				Х	Х	
Dockside Watering Facilities, Marinas	Х		Х	Х	Х	
Film Laboratories				Х	Χ	
Food Processing Plants			Х	Х	Х	
Fertilizer Plants				Х	Х	
Hospitals handling harmful substances				Х		
Lab Sink using toxics (unharmful)	Х	Х	Х	X		

SELECTION CHART FOR MINIMUM BACKFLOW PREVENTION DEVICES					
FACILITIES, FIXTURES, EQUIPMENT, OR USE OF WATER	ATMOSPHERIC TYPE VACUUM BREAKER	PRESSURE TYPE VACUUM BREAKER	DOUBLE CHECK VALVE ASSEMBLY	REDUCED PRESSURE BACKFLOW PREVENTER	AIR GAP
Meat Packing Plants				X	
Medical Bldgs, clinics, laboratories, etc.				Х	
Nonpotable Water				Х	Х
Oil Refinery and Petroleum Storage Facilities				Х	
Sanitariums	Х	Х		Х	
Sewage Piping or Plants				Х	Х
Tank Truck Fill Station				Х	Х
Mortuaries				Х	
Hoses that could be in contact with animal waste	Х	Х			
Shampoo Sprays	Х	Х			
Sterilizers				Х	
Steam Cookers using low health risk substance			Х		
Steam Cookers using high health risk substance				Х	
Swim Pools, Hot Tubs, private or semiprivate	Х	Х		Х	Х
Swim Pools direct connection	Х	Х		Х	Х
Urinals	Х			Х	
Water Cooling or Heating Coils		Х		Х	
Water Closets	Х			Х	

X -- indicates suitable protection to be required by the public water system. For facilities with multiple options, the public water system will determine the lowest degree of protection that is acceptable. (4-6-05)

03. Table 3- Well Casing Standards for Public Water System Wells.

STEEL PIPE					
				WEIGHT PER (pounds)	<u>FOOT</u>
	<u>DIAMETER</u> (inches)		THICKNESS	Plain Ends couplings	With Threads and
SIZE	External	<u>Internal</u>	<u>(inches)</u>	(calculated)	(nominal)
6 (id) *	6.625	6.065	0.280	<u>18.97</u>	<u>19.18</u>
8	8.625	7.981	0.322	<u>28.55</u>	<u>29.35</u>
<u>10</u>	10.750	10.020	0.365	40.48	<u>41.85</u>

STEEL PIPE					
<u>12</u>	12.750	12.000	<u>0.375</u>	49.56	<u>51.15</u>
14 (od) *	14.000	13.250	<u>0.375</u>	<u>54.57</u>	<u>57.00</u>
<u>16</u>	16.000	15.250	0.375	62.58	
<u>18</u>	18.000	17.250	0.375	70.59	
<u>20</u>	20.000	19.250	0.375	78.60	
22	22.000	21.000	0.500	<u>114.81</u>	
<u>24</u>	24.000	23.000	0.500	125.49	
<u>26</u>	26.000	25.000	0.500	<u>136.17</u>	
<u>28</u>	28.000	27.000	0.500	146.85	
<u>30</u>	30.000	29.000	0.500	<u>157.53</u>	
<u>32</u>	32.000	31.000	0.500	168.21	
<u>34</u>	34.000	33.000	0.500	178.89	
<u>36</u>	36.000	35.000	0.500	<u>189.57</u>	

* id = inside diameter od = outside diameter

901. -- 999. (RESERVED).

IDAPA 58 - DEPARTMENT OF ENVIRONMENTAL QUALITY

58.01.16 - WASTEWATER RULES

DOCKET NO. 58-0116-0502

NOTICE OF RULEMAKING - PROPOSED RULE

AUTHORITY: In compliance with Section 67-5221(1), Idaho Code, notice is hereby given that this agency has proposed rulemaking. This action is authorized by Chapters 1 and 36, Title 39, Idaho Code.

PUBLIC HEARING SCHEDULE: No hearings have been scheduled. Pursuant to Section 67-5222(2), Idaho Code, a public hearing will be held if requested in writing by twenty-five (25) persons, a political subdivision, or an agency. Written requests for a hearing must be received by the undersigned on or before August 16, 2006. If no such written request is received, a public hearing will not be held.

DESCRIPTIVE SUMMARY: The purpose of this rulemaking is to initiate phase two of the effort to comply with Section 2 of Senate Bill 1220 (2005), which directed the Department of Environmental Quality (DEQ) to develop facility and design standards for both drinking water and wastewater systems. This is the wastewater portion. DEQ proposes to add or modify several sections between Sections 400 and 599 of the Wastewater Rules for wastewater pumping and treatment works. This rulemaking will also modify several other sections to reflect these changes and to add or modify existing language based on input from stakeholders and DEQ.

The proposed rule text is in legislative format. Language the agency proposes to add is underlined. Language the agency proposes to delete is struck out. It is these additions and deletions to which public comment should be addressed. Wastewater system owners and operators, developers, consultants, engineers, cities, counties, industry, wastewater professional organizations, and the public at large may be interested in participating in this rulemaking.

After consideration of public comments, DEQ intends to present the final proposal to the Board of Environmental Quality in November 2006 for adoption of a pending rule. The rule is expected to be final and effective upon the adjournment of the 2007 legislative session if approved by the Legislature.

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year: N/A

IDAHO CODE SECTION 39-107D STATEMENT: Section 39-107D, Idaho Code, provides that DEQ must meet certain requirements when it formulates and recommends rules which are broader in scope or more stringent than federal law or regulations, or which propose to regulate an activity not regulated by the federal government. There is no federal law or regulation that is comparable to plan and specification review and facility standard provisions set forth in the Wastewater Rules. Therefore, the changes to the rules are not broader in scope or more stringent than federal law or regulations.

Section 39-107D, Idaho Code, also applies to a rule which "proposes to regulate an activity not regulated by the federal government." The Wastewater Rules address the review and approval of plans and specifications for sewage treatment plants and other waste treatment and disposal facilities and the standard by which the agency does the review and approval. This is not an activity regulated by the federal government. Therefore, Section 39-107D, Idaho Code, applies.

Section 39-107D(3), Idaho Code, provides that any rule subject to 39-107D that proposes a standard necessary to protect human health and the environment must also include in the rulemaking record and in the notice of rulemaking additional information. This additional information includes any estimates of risk accomplished, identification of populations or receptors addressed by any estimates, and other information related to an estimation of risk. The Wastewater Rules include facility and design standards which are intended to protect human health and the environment. The standards, however, are for the design and construction of wastewater systems. The rules are not based upon any express estimate or analysis of risk to public health or the environment. Instead, the facility and design standards are based upon guidelines set forth in documents, such as the "Recommended Standards for Wastewater Facilities", that are generally accepted and used throughout the United States by engineers and state regulators.

NEGOTIATED RULEMAKING: The text of the proposed rule has been drafted based on discussions held and

DEPARTMENT OF ENVIRONMENTAL QUALITY Wastewater Rules

Docket No. 58-0116-0502 Proposed Rulemaking

concerns raised during negotiations conducted pursuant to Idaho Code Section 67-5220 and IDAPA 04.11.01.812-815. The Notice of Negotiated Rulemaking was published in the Idaho Administrative Bulletin, December 7, 2005, Vol. 05-12, page 110.

GENERAL INFORMATION: For more information about DEQ's programs and activities, visit DEQ's web site at www.deq.idaho.gov.

ASSISTANCE ON TECHNICAL QUESTIONS AND SUBMISSION OF WRITTEN COMMENTS: For assistance on questions concerning this rulemaking, contact Mark Mason, mark.mason@deq.idaho.gov, (208) 373-0266.

Anyone may submit written comments on the proposed rule by mail, fax or e-mail at the address below. DEQ will consider all written comments received by the undersigned on or before August 30, 2006.

Dated this 30th day of June, 2006.

Paula J. Wilson Hearing Coordinator Department of Environmental Quality 1410 N. Hilton Boise, Idaho 83706-1255 (208)373-0418/Fax No. (208)373-0481 paula.wilson@deq.idaho.gov

THE FOLLOWING IS THE TEXT OF DOCKET NO. 58-0116-0502

004. INCORPORATION BY REFERENCE.

Sections 401.3.4 and 401.3.6, and 501.3.4, and 505.3.3 of "Idaho Standards for Public Works Construction," 2005 Edition, are incorporated by reference into these rules. These documents are available at the Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255, (208)373-0502 or, for a fee, from the Local Highway Technical Assistance Council (LHTAC) at LHTAC, 3330 Grace Street, Boise, ID, 83703, (208) 344-0565.

(4-11-06)()

(BREAK IN CONTINUITY OF SECTIONS)

0087. USE OF GUIDANCE IN DESIGN AND REVIEW.

Guidance documents are to be used to assist both designers and reviewers in determining a reasonable way to achieve compliance with the rules. Nothing in these rules makes the use of a particular guidance or guidance document mandatory. If the plans and specifications comply with applicable facility *standards* and design standards as set out in these rules, Section 39-118, Idaho Code, requires that the reviewing authority not substitute his or her judgment for that of the design engineer concerning the manner of compliance. If the design engineer needs assistance as to how to comply with a particular rule, the design engineer may use the referenced guidance documents <u>listed in Section 008</u> for that assistance. However, the design engineer may also use other guidance or provide documentation to substantiate his or her own professional judgment.

0078. REFERENCED MATERIAL.

Environmental I	"Recommended Standards for Wastewater Facilities." 2004 Edition, A Report of mittee of the Great Lakes-Upper Mississippi River Board of State and Provincial Public Healt Managers—(except Chapters 10, 20, and 30). This document, and subsequent revisions of the province o	th and f this
	des assistance in applying and interpreting these rules. This document is available through Frees at http://www.hes.org. (4-11-06)(
April 4, 2003 p.	Memorandum of Understanding . The Memorandum of Understanding between the Invironmental Quality and the Idaho Division of Building Safety Plumbing Bureau signed and provides assistance in determining juridiction over water and sewer service lines. Copies of railable at the Idaho Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-gov.	dated of the 1255,
available for a fe	"Idaho Standards for Public Works Construction." 2005 Edition. This document, ions of this document, provides assistance in applying and interpreting these rules. This document through the Local Highway Technical Assistance Council (LHTAC) at LHTAC, 3330 Grace S (4-11-06)(ent is Street,
<u>04.</u> 601 Wythe Stree	Water Environment Federation (WEF) Manuals of Practice. Water Environment Federat, Alexandria, VA, 22314-1994, 1-800-666-0206, www.wef.com.	ation,
05. American Societ	American Society of Civil Engineers (ASCE) Manuals and Reports on Engineering Practy of Civil Engineers, 1801Alexander Bell Drive, Reston, VA 20191, 800-548-2723, www.asce.	tices. .org.)
<u>06.</u> U.S. EPA (EPA-4	"Design Criteria for Mechanical, Electric, and Fluid System and Component Reliabi 430-99-74-001), www.epa.gov.	i lity."
07. Standard for Ce (202) 293-8020,	American National Standard Institute/Hydraulic Institute ANSI/HI 9.8, American Natentrifugal and Vertical Pump Intake Design. 1819 L Street NW Suite 600, Washington, DC 2 www.ansi.org.	ional 0036,)
<u>08.</u>	The Compressed Gas Association Publication CGA G-3-1995, "Sulfur Dioxide".)
<u>09.</u>	"Wastewater Engineering, Treatment and Reuse," Metcalf and Eddy.)
	"Ultraviolet Disinfection Guidelines for Drinking Water and Water Reuse," National Vate/American Water Works Association (AWWA) Research Foundation, 6666 West Quincy Av 35, (800)926-7337, www.awwa.org.	Water enue,)
<u>11.</u>	Pumping Station Design – Third Edition 2006. Garr M. Jones. Elsevier Publications.)
Dispute Resolut policies/pm05 2	Plan and Specification Dispute Resolution Policy. PM05-2: Plan and Specification Retion Advisory Panel for Engineering Disputes can be found at http://www.deq.idaho.gov/.cfm.	eview rules/)
13. Nutrient-Pathoge www.deq.idaho.	Nutrient-Pathogen Evaluation Program for On-Site Wastewater Treatment System Evaluation Program for On-Site Wastewater Treatment Systems can be found at Ingov/water/assist business/septic/nutrient pathogen eval guide.pdf.	
	Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater. The Guidand Reuse of Municipal and Industrial Wastewater can be found at http://www.deq.idaho.gov/vermitting/guidance.cfm.	
	AND CODES OUTSIDE OF THESE RULES. h the following laws and codes are not required by these rules, but may be required by es.	other

DEPARTMEN Wastewater R	T OF ENVIRONMENTAL QUALITY Rules	Docket No. 58-0116-0502 Proposed Rulemaking
<u>01.</u>	International Building Code.	()
<u>02.</u>	Uniform Plumbing Code.	()
<u>03.</u>	National Fire Protection Association Code (NFPA).	()
<u>04.</u>	Requirements of National Institute for Occupational Safety and I	Health (NIOSH). ()
<u>05.</u>	Requirements of the Occupational Safety and Health Administra	tion (OSHA).
<u>06.</u>	National Electrical Code.	()
<u>07.</u>	International Fire Code.	()
	NITIONS. of the rules contained in IDAPA 58.01.16, "Wastewater Rules," the following the rules contained in IDAPA 58.01.16, "Wastewater Rules," the following the rules contained in IDAPA 58.01.16, "Wastewater Rules," the	lowing definitions apply: (4-11-06)
01. licensed wastew action for normal	Available . Based on public wastewater system size, complexity, a vater operator must be on site, on call, or able to be contacted as need all or emergency conditions in a timely manner.	and variation in raw waste, a ded to initiate the appropriate (4-11-06)
For the purpose multiplied by th	Adequate Emergency Storage Capacity. The emergency storage capacity is the wet well measured between the high water alarm and the gravity set of this definition, "adequate" shall be defined as twice the estimate daily peak flow to the wet well. The high water alarm shall be placed cient to achieve the defined volumetric emergency storage capacity.	sewer invert into the wet well. ted emergency response time
and on the water water to support	Beneficial Use . Any of the various uses which may be made of the omestic water supplies, industrial water supplies, agricultural water supplier, wildlife habitat, and aesthetics. The beneficial use is dependent upon a non-existing use either now or in the future, and its likelihood of bein the purpose of wastewater dilution or as a receiving water for a waste tr	plies, navigation, recreation in n actual use, the ability of the g used in a given manner. The
	Biochemical Oxygen Demand (BOD) . The measure of the amount of oxidation requirements of organic materials at the time the sample form will mean the five (5) day BOD incubated at twenty (20) degrees C	is collected; unless otherwise
04 <u>5</u> .	Board. The Idaho Board of Environmental Quality.	(4-11-06)
comprehensive	Class A Effluent. Class A effluent is treated municipal reclaim lated, clarified, and filtered, or treated by an equivalent process and Class A Effluent criteria and permitting requirements refer to IDAPA mit Rules for the Reclamation and Reuse of Municipal and Industrial W	d adequately disinfected. For 58.01.17, "Wastewater Land
	Class A Effluent Distribution System . The delivery system for Clast include any of the collection or treatment portions of the wastewater ag requirements in Section 203 of these rules.	
	Collection System . That portion of the wastewater system or ceived from the premises of the discharger and conveyed to the point on holes, pumps/lift stations and other appurtenances.	
0 <u>89</u> . enforceable seq	Compliance Schedule or Schedule of Compliance. A schedule of reuence of actions or operations leading to compliance with an effluer	

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prohibition, or standard. (4-11-06)

- **6910. Department.** The Idaho Department of Environmental Quality. (4-11-06)
- **101. Design Flow.** The critical flow used for steady-state wasteload allocation modeling. (4-11-06)
- **142. Designated Beneficial Use or Designated Use.** Those beneficial uses assigned to identify waters in Idaho Department of Environmental Quality Rules, IDAPA 58.01.02, "Water Quality Standards," Sections 110 through 160, whether or not the uses are being attained. (4-11-06)
 - **123. Director**. The Director of the Idaho Department of Environmental Quality or his authorized agent. (4-11-06)
- **134. Discharge**. When used without qualification, any spilling, leaking, emitting, escaping, leaching, or disposing of a pollutant into the waters of the state. (4-11-06)
- **145. Disinfection.** A method of reducing the pathogenic or objectionable organisms by means of chemicals or other acceptable means. (4-11-06)
- 156. Disposal Facility. Any facility used for disposal of any wastewater. Facilities for the disposal of sludge are regulated under Section 650 of these rules.
 - **167. Effluent.** Any wastewater discharged from a treatment facility. (4-11-06)
- 18. Environmental Review. An environmental review document for a specific project includes a description of purpose and need for the project; a description of the affected environment and environmental impacts including, but not limited to, endangered species, historical and archaeological impacts, air impacts, surface and ground water impacts, and noise and visual impacts; a description of the planned mitigation for these impacts; and descriptions of the public process, agencies consulted, referenced documents, and a mailing list of interested parties. A checklist, which can be used as guidance, can be found at http://www.deq.idaho.gov/water/permits forms/forms/waste water/form j eid outline checklist.doc. This is for Department grant and loan projects, but can be used in part or in whole as a guide.
 - **179. EPA.** The United States Environmental Protection Agency. (4-11-06)
- 20. Facility Plan. The Facility Plan for a municipal wastewater treatment and disposal facility describes the overall system, including the collection system, the treatment systems, and the disposal systems. It is a comprehensive planning document for the existing infrastructure and includes the plan for the future of the systems, including upgrades and additions. It is usually updated on a regular basis due to anticipated or unanticipated growth patterns, regulatory requirements, or other infrastructure needs. A Facility Plan is sometimes referred to as a master plan or facilities planning study. In general, a Facility Plan is an overall system-wide plan as opposed to a project specific plan.
- **1821. Facility Standards and Design Standards**. Facility **standards** and design standards are described in Sections 400, 410, 420, and 430 through 599 of these rules. Facility and design standards found in Sections 410, 420, and 430 through 599 of these rules must be followed in the planning, design, construction, and review of municipal wastewater facilities. (4-11-06)(____)
- **1922. Geometric Mean**. The geometric mean of "n" quantities is the "nth" root of the product of the quantities. (4-11-06)
- **203. Ground Water**. Any water of the state which occurs beneath the surface of the earth in a saturated geological formation of rock or soil. (4-11-06)
- **244. Industrial Wastewater**. Any waste, together with such water as is present, that is the by-product of industrial processes including, but not limited to, food processing or food washing wastewater. (4-11-06)

- **225. Land Application.** A process or activity involving application of wastewater, surface water, or semi-liquid material to the land surface for the purpose of disposal, pollutant removal, or ground water recharge. (4-11-06)
- **236. License.** A physical document issued by the Idaho Bureau of Occupational Licenses certifying that an individual has met the appropriate qualifications and has been granted the authority to practice in Idaho under the provisions of Chapter 24, Title 54, Idaho Code. (4-11-06)
- **247. Material Deviation.** A change from the design plans that significantly alters the type or location of facilities, requires engineering judgment to design, or impacts the public safety or welfare. (4-11-06)
- **258. Material Modification**. Material modifications are those that are intended to increase system capacity or to alter the methods or processes employed. (4-11-06)
- **269. Mixing Zone**. A defined area or volume of the receiving water surrounding or adjacent to a wastewater discharge where the receiving water, as a result of the discharge, may not meet all applicable water quality criteria or standards. It is considered a place where wastewater mixes with receiving water and not as a place where effluents are treated. (4-11-06)
- **2730. Municipal Wastewater.** Unless otherwise specified, sewage and associated solids, whether treated or untreated, together with such water that is present. Also called domestic wastewater. Industrial wastewater may also be present, but is not considered part of the definition.

(4-11-06)

- **2831. National Pollutant Discharge Elimination System (NPDES)**. Point source permitting program established pursuant to Section 402 of the federal Clean Water Act. (4-11-06)
- **2932. Natural Background Conditions.** No measurable change in the physical, chemical, biological, or radiological conditions existing in a water body without human sources of pollution within the watershed. (4-11-06)
- 30. Nephelometric Turbidity Units (NTU). A measure of turbidity based on a comparison of the intensity of the light scattered by the sample under defined conditions with the intensity of the light scattered by a standard reference suspension under the same conditions.

 (4-11-06)
- 33. Non-Contact Cooling Water. Water used to reduce temperature which does not come into direct contact with any raw material, intermediate product, waste product (other than heat) or finished product. Non-contact cooling water is not considered wastewater. Non-contact cooling water can be land applied as recharge water as discussed in Section 600 based on a Department approval as described in Subsections 600.04 and 600.05.
- **314. Nuisance**. Anything which is injurious to the public health or an obstruction to the free use, in the customary manner, of any waters of the state. (4-11-06)
- **325. Nutrients.** The major substances necessary for the growth and reproduction of aquatic plant life, consisting of nitrogen, phosphorus, and carbon compounds. (4-11-06)
- 336. Non-Potable Mains. The pipelines that collect and convey non-potable discharges from or to multiple service connections. Examples would include sewage collection and interceptor mains, storm sewers, non-potable irrigation mains, and reclaimed wastewater mains.
- **347. Non-Potable Services.** The pipelines that convey non-potable discharges from individual facilities to a connection with the non-potable main. This term also refers to pipelines that convey non-potable water from a pressurized irrigation system, reclaimed wastewater system, and other non-potable systems to individual consumers. (4-11-06)
- **358. Operating Personnel**. Any person who is employed, retained, or appointed to conduct the tasks associated with the day-to-day operation and maintenance of a public wastewater system. Operating personnel shall include every person making system control or system integrity decisions about water quantity or water quality that

may affect public health.

(4-11-06)

- **362. Owner.** For purposes of Sections 202 through 204, fThe person, company, corporation, district, association or other organizational entity that owns the public wastewater system, and who provides, or intends to provide, wastewater service to system users and is ultimately responsible for the public wastewater system operation.

 (4-11-06)(_____)
- **3740. Person**. An individual, public or private corporation, partnership, association, firm, joint stock company, joint venture, trust, estate, state, municipality, commission, political subdivision of the state, state or federal agency, department or instrumentality, special district, interstate body or any legal entity, which is recognized by law as the subject of rights and duties. (4-11-06)
- **3841. Point Source**. Any discernible, confined, and discrete conveyance, including, but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants are, or may be, discharged to surface waters of the state. This term does not include return flows from irrigated agriculture, discharges from dams and hydroelectric generating facilities or any source or activity considered a nonpoint source by definition. (4-11-06)
- **3942. Pollutant.** Dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical waste, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, silt, cellar dirt; and industrial, municipal and agricultural waste, gases entrained in water; or other materials which, when discharged to water in excessive quantities, cause or contribute to water pollution. Provided however, biological materials shall not include live or occasional dead fish that may accidentally escape into the waters of the state from aquaculture facilities. (4-11-06)
- **403. Potable Water.** A water which is free from impurities in such amounts that it is safe for human consumption without treatment. (4-11-06)
 - 414. Potable Water Mains. Pipelines that deliver potable water to multiple service connections.
- **425. Potable** *Water* **Service.** Pipelines that convey potable water from a connection to the potable water main across private property to individual consumers. (4-11-06)(_____)
- 46. Preliminary Engineering Report. The Preliminary Engineering Report for the municipal wastewater treatment or disposal facility is the report that addresses specific portions of the systems as they are being contemplated for design. These reports address specific purpose and scope, design requirements, alternative solutions, costs, operation and maintenance requirements, and other requirements as described in Section 411. Preliminary Engineering Reports are generally project specific as opposed to an overall system-wide plan, such as a Facility Plan.
- **437. Primary Treatment**. Processes or methods that serve as the first stage treatment of wastewater, intended for removal of suspended and settleable solids by gravity sedimentation; provides no changes in dissolved and colloidal matter in the sewage or wastes flow. (4-11-06)
- 48. Private Community Municipal Wastewater Treatment Plant. A wastewater facility that treats municipal wastewater from a private community or subdivision. These systems are typically initially owned, operated, and maintained by a developer with the ownership, operation and maintenance transferring to a homeowners association, sewer district, or similar entity as lots are sold within the development.
- **449. Public Wastewater System or Wastewater System.** For purposes of Sections 202 through 204, a public wastewater system or wastewater system is any publicly or privately owned collection system or treatment system that generates, collects, or treats two thousand five hundred (2,500) or more gallons of wastewater per day. This does not include any wastewater treatment system operated and maintained exclusively by a single family residence or any wastewater system consisting solely of a gravity flow, non-mechanical septic tank and subsurface treatment and distribution system, any wastewater system with individual septic tanks and individual pump stations that discharge to a common gravity flow subsurface treatment and distribution system when ownership of each septic

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tank and pumping station is by individual property owner and ownership of the common system is by a public or private entity; any animal waste system used for agricultural purposes that have been constructed in part or whole by public funds, or industrial wastewater systems under private ownership. This definition also does not include any industrial or other nonmunicipal wastewater system which is covered under Section 401 of these rules.

(4-11-06)(

- **450. Quasi-Municipal Corporation**. A public entity, other than community government, created or authorized by the legislature to aid the state in, or to take charge of, some public or state work for the general welfare. For the purpose of these rules, this term refers to wastewater or sewer districts. (4-11-06)
 - **4651. Receiving Waters**. Those waters which receive pollutants from point or nonpoint sources. (4-11-06)
 - **4752. Recharge**. The process of adding water to the zone of saturation. (4-11-06)
- **4853. Recharge Water.** Water that is specifically utilized for the purpose of adding water to the zone of saturation. (4-11-06)
- **54.** Redundancy. Redundancy for wastewater treatment and disposal facilities is generally focused on supplying or installing backup equipment and facilities to make the operation of the systems more reliable. These redundant systems are sometimes required to provide backup for emergencies, taking certain processes off-line, or for treating spikes in wastewater flow or strength.
- **55. Reliability.** Reliability for wastewater collection and treatment and disposal facilities is usually based on its ability to consistently handle the wastewater flows in the community and to meet the requirements of its permit. This reliability is in part based on the redundancy built into the wastewater infrastructure and proper maintenance of the system.
- **4956. Responsible Charge (RC)**. For purposes of Sections 202 through 204, responsible charge means, active, daily on-site and/or on-call responsibility for the performance of operations or active, on-going, on-site and/or on-call direction of employees and assistants. (4-11-06)
- **567. Responsible Charge Operator.** For purposes of Sections 202 through 204, a responsible charge operator is an operator licensed at a class equal to or greater than the classification of the system and who has been designated by the system owner to have direct supervision of and responsibility for the performance of operations of a specified wastewater treatment system(s) or wastewater collection system(s) and the direction of personnel employed or retained at the same system. The responsible charge operator has an active daily on-site and/or on-call presence at the specified facility. (4-11-06)
- **58.** Reuse. The use of reclaimed wastewater for beneficial uses including, but not limited to, land treatment, irrigation, ground water recharge using surface spreading, seepage ponds, or other unlined surface water features.
- **542. Reviewing Authority.** For those projects requiring preconstruction approval by the Department, the Department is the reviewing authority. For those projects allowing for preconstruction approval by others, pursuant to Subsection 400.01.b. of these rules, the qualified <u>Idaho</u> licensed professional engineer is also the reviewing authority.

 (4-11-06)(_____)
- **5260. Sanitary Sewer Extension**. As used in Section 400, an extension of an existing wastewater collection system that does not require a lift station or force main and is intended to increase the service area of the wastewater collection system. (4-11-06)
- **5361. Secondary Treatment**. Processes or methods for the supplemental treatment of wastewater, usually following primary treatment, to affect additional improvement in the quality of the treated wastes by biological means of various types which are designed to remove or modify organic matter. (4-11-06)
 - **62. Septage.** Septage is a general term for the contents removed from septic tanks, portable vault

toilets, privy vaults, wastewater holding tanks, very small wastewater treatment plants, or semi-public facilities (i.e., schools, motels, mobile home parks, campgrounds, small commercial endeavors) receiving wastewater from domestic sources. Non-domestic (industrial) wastes are not included in this definition. This does not include drinking water treatment residuals that may be held in a holding tank.

- **5463. Sewage**. The water-carried human or animal waste from residences, buildings, industrial establishments or other places, together with such ground water infiltration and surface water as may be present. (4-11-06)
- **565. Special Resource Water**. Those specific segments or bodies of water which are recognized as needing intensive protection: (4-11-06)
 - **a.** To preserve outstanding or unique characteristics; or (4-11-06)
 - **b.** To maintain current beneficial use. (4-11-06)
 - **5766. State**. The state of Idaho. (4-11-06)
- **5867. Substitute Responsible Charge Operator.** A public wastewater operator holding a valid license at a class equal to or greater than the public wastewater system classification, designated by the system owner to replace and to perform the duties of the responsible charge operator when the responsible charge operator is not available or accessible. (4-11-06)
- **5968. Surface Water Body**. All surface accumulations of water, natural or artificial, public or private, or parts thereof which are wholly or partially within, which flow through or border upon the state. This includes, but is not limited to, rivers, streams, canals, ditches, lakes, and ponds. It does not include private waters as defined in Section 42-212, Idaho Code. (4-11-06)
- 69. Total Maximum Daily Load (TMDL). The sum of the individual wasteload allocations (WLAs) for point sources, load allocations (LAs) for nonpoint sources, and natural background. Such load shall be established at a level necessary to implement the applicable water quality standards with seasonal variations and a margin of safety which takes into account any lack of knowledge concerning the relationship between effluent limitations and water quality.
- **670. Treatment**. A process or activity conducted for the purpose of removing pollutants from wastewater. (4-11-06)
- **671. Treatment Facility.** Any physical facility or land area for the purpose of collecting, treating, neutralizing or stabilizing pollutants including treatment plants; the necessary <u>collecting</u>, intercepting, outfall and outlet sewers; pumping stations integral to such plants or sewers; <u>disposal or reuse facilities</u>; equipment and furnishing thereof; and their appurtenances. <u>A For the purpose of these rules</u>, a treatment facility may also be known as a treatment system, <u>a wastewater system</u>, waste<u>water</u> treatment system, waste<u>water</u> treatment facility, or waste<u>water</u> treatment plant.

 (4-11-06)(____)
 - **672.** User. Any person served by a public wastewater system. (4-11-06)
- **673. Wastewater.** Unless otherwise specified, sewage, industrial waste, agricultural waste, and associated solids or combinations of these, whether treated or untreated, together with such water as is present. (4-11-06)
 - **674. Wastewater Lagoon**. Manmade impoundments for the purpose of storing or treating wastewater. (4-11-06)
 - 675. Wastewater Pipelines. The pipelines that collect and convey non-potable discharges from or to

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multiple service connections.

(4-11-06)

676. Wastewater <u>System</u> <u>Pumping Station</u>. <u>Wastewater system includes any collection system, treatment system, or disposal facility.</u> A wastewater facility that collects wastewater from the collection system or the treatment system and pumps it to a higher elevation. Also called lift station or wastewater lift station.

(4-11-06)(____)

- **677. Wastewater System Operator.** The person who is employed, retained, or appointed to conduct the tasks associated with routine day to day operation and maintenance of a public wastewater treatment or collection system in order to safeguard the public health and environment. (4-11-06)
- **678. Water Main Extension**. An extension of the distribution system of an existing public water system that does not require a booster pumping station and is intended to increase the service area of the water system. (4-11-06)
- **679. Water Pollution**. Any alteration of the physical, thermal, chemical, biological, or radioactive properties of any waters of the state, or the discharge of any pollutant into the waters of the state, which will or is likely to create a nuisance or to render such waters harmful, detrimental or injurious to public health, safety or welfare, or to fish and wildlife, or to domestic, commercial, industrial, recreational, aesthetic, or other beneficial uses. (4-11-06)
- **780. Waters and Waters of the State**. All the accumulations of water, surface and underground, natural and artificial, public and private, or parts thereof which are wholly or partially within, which flow through or border upon the state. (4-11-06)
- **781. Watershed**. The land area from which water flows into a stream or other body of water which drains the area. (4-11-06)

(BREAK IN CONTINUITY OF SECTIONS)

203. PUBLIC WASTEWATER SYSTEM OPERATOR LICENSURE REQUIREMENTS.

- **O1. System Operator Licensure Requirement.** Owners of all public wastewater systems must place the direct supervision of their wastewater system(s), including each treatment system and each collection system, under the responsible charge of an operator who holds a valid license equal to or greater than the classification of the wastewater treatment system and collection system. An operator in responsible charge of both a wastewater treatment system and a collection system shall hold two (2) licenses, one (1) for wastewater treatment and one (1) for collection. Owners shall notify the Department in writing of any change of responsible charge or substitute responsible charge operator within ten (10) days of such change. (4-11-06)
- **02. Responsible Charge Operator License Requirement.** An operator in responsible charge of a public wastewater system in Idaho must hold a valid license equal to or greater than the classification of the wastewater system(s), including each treatment system, where present, and each collection system as determined by the Department. (4-11-06)
- **O3. Substitute Responsible Charge Operator.** At such times as the responsible charge operator is not available, a substitute responsible charge operator shall be designated to replace the responsible charge operator. (4-11-06)
- **04. Wastewater System Operator Licensure**. All other operating personnel at public wastewater systems including each treatment system and collection system must hold a valid license. (4-11-06)
- 05. Class A Reclaimed Wastewater System Operator License Exception. Any public wastewater system operating personnel that exclusively operate a Class A Effluent Distribution System of a Class A Municipal

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Reclaimed Wastewater System permitted in accordance with IDAPA 58.01.17, "Wastewater Land Application Permit Rules for the Reclamation and Reuse of Municipal and Industrial Wastewater," is not subject to operator licensing requirements.

(4-11-06)(

- **96. General Compliance Deadline**. All public wastewater systems addressed in Sections 202 and 203 shall be in compliance with these rules by April 15, 2006. (4-11-06)
- **07.** Land Application/Reuse Operator Compliance Deadline. Each public wastewater land application/reuse system addressed in these rules shall employ, retain or contract with licensed land application/reuse operating personnel by April 15, 2007.
- **08. Qualifications for Operator Licensure**. All public wastewater system operating personnel, including responsible charge and substitute responsible charge operators, must qualify for and hold a valid license issued by the Idaho Bureau of Occupational Licenses. (4-11-06)

(BREAK IN CONTINUITY OF SECTIONS)

400. REVIEW OF PLANS FOR MUNICIPAL WASTEWATER TREATMENT OR DISPOSAL FACILITIES.

01. Plan and Specification Review.

(4-11-06)

- Except as provided in Subsection 400.01.b., all plans and specifications for the construction of new sewage systems, sewage treatment plants or systems, other municipal wastewater treatment or disposal facilities, or for material modifications to existing sewage treatment plants or systems, municipal wastewater treatment or disposal facilities shall be submitted to the Department for review and approval before construction may begin and all construction shall be in substantial compliance therewith. This does not include plan and specifications for facilities for sludge disposal, but does include plans and specifications for treatment or storage of sludge. If construction does not commence within twelve (12) months of the Department's final approval of plans and specifications, the Department may require resubmittal of all or part of the plans and specifications for review. The Department shall review plans and specifications and endeavor to resolve design issues within forty-two (42) calendar days of submittal such that approval can be granted. If the Department and applicant have not resolved design issues within forty-two (42) calendar days or at any time thereafter, the applicant may file a written demand to the Department for a decision. Upon receipt of such written demand, the Department shall deliver a written decision to the applicant within no more than seven (7) calendar days explaining any reasons for disapproval. The Department shall maintain records of all written demands for decision made pursuant to Subsection 400.01.a. with such records including the final decision rendered and the timeliness thereof. No material deviation shall be made to the approved plans and specifications without the prior approval of the Department. $(4-11-\bar{0}6)$ (
- **b.** Plans developed for sanitary sewer extensions, when such facilities will be owned and operated by a city, county, quasi-municipal corporation or regulated public utility, shall not require preconstruction approval by the Department, provided that such plans and specifications are reviewed and approved by another qualified Idaho licensed professional engineer to verify compliance with the requirements of these rules prior to initiation of construction. Any plans approved pursuant to Subsection 400.01.b. shall be transmitted to the Department at the time construction is authorized along with a statement that the plans comply with the requirements of these rules and that construction has been authorized by the city, county, quasi-municipal corporation or regulated public utility that will

own and operate the system. At the discretion of the city, county, quasi-municipal corporation or regulated public utility, the plans addressed by this subsection may be referred to the Department for review and approval prior to initiation of construction. The Department has the authority to review plans and specifications approved by a qualified Idaho licensed professional engineer and can require modifications if the plans and specifications do not meet facility and design standards.

(4-11-06)(____)

- **O2. Professional Engineer**. Plans and specifications for construction, alteration or expansion of any sewage system, sewage treatment plant or system, or other municipal wastewater treatment or disposal facility shall be prepared by or under the supervision of an Idaho *registered* <u>licensed</u> professional engineer and shall bear the imprint of the engineer's seal. Construction shall be observed by an *registered* <u>Idaho licensed</u> professional engineer or a person under the supervision of an *registered* <u>Idaho licensed</u> professional engineer. (4-11-06)(_____)
- **O3. Record Plans and Specification.** Within thirty (30) calendar days of the completion of construction of facilities covered by Subsection 400.01, record plans and specifications based on information provided by the construction contractor and field observations made by the engineer or the engineer's designee depicting the actual construction of facilities performed, must be submitted to the Director by the engineer representing the city, county, quasi-municipal corporation or regulated public utility that owns the project, or by the design engineer or owner-designated substitute engineer if the constructed facilities will not be owned and operated by a city, county, quasi-municipal corporation or regulated public utility. Such submittal by the *professional* engineer must confirm material compliance with the approved plans and specifications or disclose material deviations therefrom. If the construction does not materially deviate from the approved plans and specifications, the owner may have a statement to that affect prepared by an *qualified* Idaho licensed professional engineer and filed with the Department in lieu of submitting a complete and accurate set of record drawings.
- **O4.** Compliance With Applicable Standards and Rules. All plans and specifications submitted to satisfy the requirements of Sections 400 through 599 or approved in compliance with Sections 400 through 599, shall be in compliance with the requirements of these rules and shall conform in style and quality to regularly accepted engineering standards. The Department shall review plans and specifications to determine compliance with these rules and engineering standards of care. If the plans and specifications comply with these rules and engineering standards of care, the Department shall not substitute its judgment for that of the owner's design engineer concerning the manner of compliance with these rules.
- **05. Waiver of Approval Requirement**. The Department may waive the plan and specification approval for any particular facility or category of facilities, or may waive any portion of these rules, which will have no significant impact on the environment or on the public health.

 (4-11-06)(____)
- <u>06.</u> Requirement to Have Approved Plans and Specifications and Approval Letter On-site During Construction. It is the responsibility of the owner to maintain one (1) copy of the approved plans and specifications and the approval letter from the reviewing authority on-site during construction at all times.
- O7. Construction Inspection Requirement. Except as provided in Subsection 400.01.b., no construction shall commence until all of the necessary approvals have been received from the Department. The owner shall provide for the inspection of the construction of a municipal wastewater treatment or disposal facility by an Idaho licensed professional engineer to the extent required to confirm material compliance with the approved plans and to produce accurate record documents as required by Subsection 400.03.

401. REVIEW OF PLANS FOR NONMUNICIPAL WASTEWATER TREATMENT OR DISPOSAL FACILITIES.

- **01. Plan and Specification Approval Required**. The construction, alteration or expansion of any nonmunicipal wastewater treatment or disposal facility must not begin before plans and specifications for the proposed facility have been submitted to and approved by the Department. Deviations may be allowed as provided in Subsection 401.02. The Department does not require review of industrial in-plant processes. (4-11-06)
- **02. Deviations from Approved Plans**. No deviations are to be made from the approved plans and specifications without prior approval of the Department. (4-11-06)

- **Record Plans and Specifications**. If actual construction deviates from the approved plans and specifications, complete and accurate plans and specifications depicting the actual construction, alteration, or modification performed, shall be submitted to the Department for review and approval within thirty (30) days of completion of construction. If the construction does not materially deviate from the approved plans and specifications, the owner may have a statement to that affect prepared by an Idaho licensed professional engineer and filed with the Department in lieu of submitting a complete and accurate set of record drawings.

 (4-11-06)(______)
- **04. Waiver of Approval Requirement**. The Department can waive the plan and specification approval required in Subsection 401.01 for any particular facility or category of facilities, or may waive any portion of these rules, which will have no significant impact on the environment or on the public health.

 (4-11-06)(_____)
- **05.** Applicability of Standards. The facility and design standards for municipal wastewater treatment or disposal facilities set out in these rules do not apply to nonmunicipal wastewater treatment or disposal facilities covered under Section 401.

402. PLAN AND SPECIFICATION REVIEW DISPUTE RESOLUTION.

The Department's plan and specification review dispute resolution policy is set out in PM05-2: Plan and Specification Review Dispute Resolution Advisory Panel for Engineering Disputes, http://www.deq.idaho.gov/rules/policies/pm05_2.cfm.

40<u>23</u>. -- 409. (RESERVED).

410. FACILITY AND DESIGN STANDARDS FOR MUNICIPAL WASTEWATER TREATMENT OR DISPOSAL FACILITIES -- ENGINEERING REPORTS AND FACILITY PLANS.

- Engineering Reports and Facility Plans Required. Engineering Reports and current Facility Plans are required for All new municipal wastewater treatment or disposal facilities, and all existing municipal wastewater treatment or disposal facilities undergoing material modification or expansion, are required to have a current Facility Plan that shall address all applicable issues specifically required in Sections 410 and 412 through 599 of these rules including, but not limited to, and shall address hydraulic capacity, treatment capacity, project financing, and operation and maintenance considerations sufficiently to determine the effects of the project on the overall wastewater infrastructure. Engineering Reports must be completed for minor collection system, pump station, and interceptor projects. Comprehensive Facility Plans are not required for minor or routine collection systems. Comprehensive Facility Plans must be completed or have been completed for projects involving new, expanded, Material modification or expansion that requires a Facility Plan includes upgraded, or rehabilitated municipal wastewater treatment or disposal facilities and major collection, interceptor sewer, and pump station projects, and Facility Plans must address the entire potential service area of the project. Facility Plans are not required for minor or routine collection system projects. The determination of classification as major or minor collection interceptor sewer and pump station projects will be made by the reviewing authority Department based on review of recommended classification by the owner. A Facility Plan may be completed for collection systems only. If such a collection system Facility Plan is conducted, and flows increase in excess of the design capacity of downstream collection and treatment facilities, the impact of the flow shall be addressed in the Facility Plan. (4-11-06)
- **O2.** Submittal to Reviewing Authority Department. Documents referenced in Subsection 410.01 must Facility Plans shall be submitted to the reviewing authority Department for review and approval, prior to the submission of plans and specifications for a project related to the Facility Plan. In the case of a sanitary sewer extension reviewed by a qualified Idaho licensed professional engineer pursuant to Subsection 400.01.b., an updated Facility Plan shall be submitted to the Department for review and approval unless the reviewing authority already has the reports and a Department approved Facility Plans in its his possession.
- **Engineering Report or** Facility Plan Contents. The Engineering Report or Facility Plan must include sufficient detail to demonstrate that the proposed project meets applicable criteria. The Facility Plan generally addresses the overall system-wide plan. The Facility Plan typically shall identifiesy and evaluates wastewater related problems; assembles basic information; presents criteria and assumptions; examines alternate projects, alternative solutions with preliminary layouts and cost estimates; describes financing methods, 9; sets forth anticipated charges for users; reviews organizational and staffing requirements; offers a conclusion with a proposed project for client consideration; and outlines official actions and procedures to implement the project. If the project is funded by the

state revolving fund or a grant, other requirements may also apply. See IDAPA 58.01.12, "Rules for Administration of Water Pollution Control Loans," and IDAPA 58.01.04, "Rules for Administration of Wastewater Treatment Facility Grants." A checklist, which can be used as guidance, can be found at http://www.deq.idaho.gov/water/permits forms/forms/waste water/form i report checklist.pdf. The guidance document is for Department grant and loan projects, but may be used in part or in whole as a guide to assist in the development of a Facility Plan for any proposed project.

engineer and bear the imprint of the engineer's seal that is both signed and dated by the engineer.

411. FACILITY AND DESIGN STANDARDS FOR MUNICIPAL WASTEWATER TREATMENT OR DISPOSAL FACILITIES - PRELIMINARY ENGINEERING REPORTS.

- O1. Preliminary Engineering Reports Required. Preliminary Engineering Reports are required for municipal wastewater treatment or disposal facility projects that require plan and specification review and approval pursuant to Subsection 400.01 and shall address all applicable issues specifically required in Sections 411 through 599 of these rules including, but not limited to, purpose, scope, hydraulic capacity, treatment capacity, and operation and maintenance considerations sufficiently to determine the effects of the project on the overall wastewater infrastructure. Preliminary Engineering Reports must be completed for major collection system projects, and all pump station projects, all interceptor projects, and all treatment plant designs and upgrades. The determination of classification as major or minor collection interceptor sewer and pump station projects will be made by the Department based on review of recommended classification by the owner. Preliminary Engineering Reports are not required for minor or routine collection system projects.
- **O2.** Submittal to Reviewing Authority. Preliminary Engineering Reports shall be submitted to the reviewing authority for review and approval prior to the submission of plans and specifications.
- Q3. Preliminary Engineering Report Contents. The Preliminary Engineering Report must include sufficient detail to demonstrate that the proposed project meets applicable criteria. The Preliminary Engineering Report generally addresses project specific issues rather than the overall system-wide plan. The Preliminary Engineering Report shall identify and evaluate wastewater related problems; assemble basic information; present criteria and assumptions; examine alternative solutions with preliminary layouts and cost estimates; offer a conclusion with a proposed project; and outline official actions and procedures to implement the project. The items included in Subsections 411.03.a. through 411.03.k., and other items specifically called for in Sections 426 through 599, shall be addressed in detail in the Preliminary Engineering Report for all municipal wastewater treatment plant projects. If specific items are not applicable to a particular design, then the designer shall state this in the Preliminary Engineering Report and state the reason why it is not applicable. Items adequately addressed in the Facility Plan under which the project is being designed, may be addressed by reference for purposes of the Preliminary Engineering Report.(_____)

Coordination with Engilities Plan

<u>a.</u>	Coordination with Pacifities Flair.	<u> </u>
<u>b.</u>	Design Criteria.	()
<u>i.</u>	Influent flow rates: average annual, maximum month, peak hour.	()
<u>ii.</u>	Influent wastewater characteristics, including wet weather flows.	()
<u>iii.</u>	Effluent requirements.	()
<u>iv.</u>	Solids production, disposal or recycling requirements.	()
<u>v.</u>	Process units design criteria, process selection, and support data.	()
<u>vi.</u>	Mass balance calculations for process units, including but not limited to flow and solids.	()
<u>vii.</u>	Redundancy provisions.	()

DEPARTMENT OF ENVIRONMENTAL QUALITY Wastewater Rules			Docket No. 58-0116-0502 Proposed Rulemaking	
		Site Evaluation and Layout.	()	
	<u>C.</u>	·	<u>()</u>	
<u>i</u>		Currently proposed facilities.	(
	<u>i.</u>	Facilities for twenty (20) year design condition.	<u>()</u>	
	<u>ii.</u>	Facilities for build-out conditions.	<u>()</u>	
<u>1</u>	<u>V.</u>	Space for facilities to meet higher levels of treatment.	<u>()</u>	
	<u>v.</u>	Liquid process facilities and conveyance.	()	
7	<u>vi.</u>	Solids process facilities and conveyance.	()	
7	vii.	Plant access and on-site roads and walkways.	()	
7	viii.	Process piping and utilities.	()	
<u>i</u>	<u>X.</u>	Primary electric system.	()	
2	<u>x.</u>	Flood control provisions.	()	
<u>></u>	<u>xi.</u>	Geotechnical investigation and provisions.	<u>()</u>	
Σ	<u>xii.</u>	Buffer zones.	()	
2	<u>xiii.</u>	Landscaping.	()	
<u>2</u>	<u>xiv.</u>	Security.	()	
<u>></u>	XV.	Administration and Operations Buildings.	()	
<u>></u>	<u>xvi.</u>	Laboratory.	()	
<u>></u>	<u>xvii.</u>	Operations and Maintenance assessments.	()	
2	xviii.	Treatment during construction.	<u>()</u>	
<u>></u>	xix.	Odor Management Plan.	()	
<u>(</u>	<u>d.</u>	Hydraulic Profile.	()	
<u>i</u>	<u>.</u>	Twenty (20) year design facilities.	()	
<u>i</u>	<u>i.</u>	Provision for higher levels of treatment.	()	
<u>i</u>	<u>ii.</u>	Receiving stream one hundred (100) year water surface elevation.	()	
<u>i</u>	V.	Hydraulics and pipe sizing for build-out condition.	()	
	e <u>.</u>	Process Units.	<u>()</u>	
<u>i</u>	<u>.</u>	Current project, twenty (20) year design, build-out conditions.	<u>()</u>	
	<u>i.</u>	Size, number of units and loading rates.	<u>()</u>	

DEPARTMENT Wastewater R	OF ENVIRONMENTAL QUALITY ules	Proposed Rulemaking
<u>iii.</u>	Redundancy provisions.	<u>()</u>
<u>iv.</u>	Equipment type, size, performance criteria and power requirements.	<u>()</u>
<u>V.</u>	Structure, equipment and piping layout.	()
<u>vi.</u>	Special code requirements.	()
<u>vii.</u>	Cold temperature operation.	()
<u>f.</u>	Instrumentation and Control System.	<u>()</u>
<u>i.</u>	System configuration.	()
<u>ii.</u>	Operator interface.	()
<u>iii.</u>	Process and Instrumentation Diagrams.	<u>()</u>
<u>g.</u>	Collection system piping materials.	<u>()</u>
<u>i.</u>	Current project fifty (50) year design, build-out conditions.	<u>()</u>
<u>ii.</u>	Depth of bury.	<u>()</u>
<u>iii.</u>	Soil and ground water conditions.	<u>()</u>
<u>iv.</u>	Corrosion protection.	<u>()</u>
<u>V.</u>	Odor control.	()
<u>h.</u>	Code Provisions. Summary of applicable codes.	()
<u>i.</u>	Cost Estimate.	()
<u>j.</u>	Schedule.	()
<u>k.</u>	Environmental Review.	()
licensed profess engineer.	Engineer's Seal Required. Preliminary Engineering Reports shall ional engineer and bear the imprint of the engineer's seal that is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal that it is bear the imprint of the engineer's seal tha	l be submitted by an Idaho oth signed and dated by the
41 <u>+2</u> 419.	(RESERVED).	
	(BREAK IN CONTINUITY OF SECTIONS)	
421 42 <u>94</u> .	(RESERVED).	
DISPOSAL FA Final operation	ITY AND DESIGN STANDARDS FOR MUNICIPAL WASTEY CILITIES - OPERATION AND MAINTENANCE MANUALS. and maintenance manuals for construction of wastewater systems must be submitted to the Department for review and approval prior	that include lift stations or

426. -- 429. (RESERVED)

430. FACILITY AND DESIGN STANDARDS FOR MUNICIPAL WASTEWATER TREATMENT OR DISPOSAL FACILITIES -- DESIGN AND CONSTRUCTION OF WASTEWATER PIPELINES.

O1. Design Capacity and Design Flow. In general, sewer capacities shall be designed for the estimated ultimate tributary population, except in considering parts of the systems that can be readily increased in capacity.

(4-11-06)

02. Details of Design and Construction.

- (4-11-06)
- **a.** Minimum Pipe Size. Minimum pipe size shall be based on cleaning capability and hydraulic capacity, and shall conform with the required planning documents. (4-11-06)
- **b.** Depth. Wastewater pipelines shall be installed sufficiently deep or specifically designed to prevent freezing and to protect the facilities from surface loading. (4-11-06)
- **c.** Buoyancy. Buoyancy of wastewater pipelines shall be considered and flotation of the pipe shall be prevented with appropriate construction where high groundwater conditions are anticipated. (4-11-06)
- d. Slope. <u>Gravity</u> wastewater pipelines shall be designed to have sufficient slope and velocity to "self clean" or transport constituent solids to the treatment facility. <u>Or Justification for these slopes shall be included in the Preliminary Engineering Report and shall be based on widely used guidance documents or published friction coefficients and Manning's formula. (_____)</u>
- i. If the current or future ownership of the system is by a city, county, quasi-municipal corporation or regulated public utility and the velocities are less than self cleaning, the owner shall, *periodically* as a condition of the Department's approval of plans and specifications, provide justification for the lower velocities and commit to, at a minimum, semiannually service wastewater pipelines to flush, transport, or remove solids from wastewater pipelines with minimal velocities. This would include the use of cutting tools for roots, vactor trucks, and any other method required to keep the pipelines clean, intact and flowing. That commitment shall be in the form of a letter from both the owner and the future owner entity stating said commitment, and shall include a discussion of the current and future owners' capacity to do said flushing.
- ii. If the current or future ownership of the system is by a developer that is passing the operation and maintenance on to a homeowner's association or other similar entity, then the design shall not allow for velocities that are less than self cleaning.

e. Materials. (4-11-06)

- i. Any generally accepted material for wastewater pipelines will be given consideration. The material selected should be adapted to local conditions, such as: character of industrial wastes, possibility of septicity, soil characteristics, exceptionally heavy external loadings, abrasion, corrosion, and similar problems. (4-11-06)
- ii. Couplings complying with applicable standard specifications shall be used for joining dissimilar materials. (4-11-06)
- iii. For new pipe materials for which standards have not been established, the design engineer shall provide complete pipe specifications and installation specifications developed on the basis of criteria adequately documented and certified in writing by the pipe manufacturer to be satisfactory for the specific application. (4-11-06)
- f. Installation. Installation specifications shall contain appropriate requirements based on the criteria, standards, and requirements established by industry in its technical publications. Reference <u>current edition of the</u> Idaho Standards for Public Works Construction, <u>2005 Edition</u>, <u>and subsequent revisions</u>, for assistance in designing such specifications.

 (4-11-06)(____)

g. Joints and Infiltration.

- i. The installation of joints and the materials used shall be included in the specifications. Wastewater pipeline joints shall be designed to minimize infiltration and to prevent the entrance of roots throughout the life of the system. Reference <u>current edition of the</u> Idaho Standards for Public Works Construction, 2005 Edition, and subsequent revisions, for assistance in designing such specifications.

 (4-11-06)(____)
- ii. Service connections to the wastewater pipeline main shall be water tight and not protrude into the wastewater pipelines. If a saddle type connection is used, it shall be a device designed to join with the types of pipe which are to be connected. All materials used to make service connections shall be compatible with each other and with the pipe materials to be joined and shall be corrosion proof. (4-11-06)
- **h.** Manholes. Manholes shall be installed at the end of each line; at all changes in grade, size, or alignment; at all intersections. Cleanouts may be used only for special conditions and shall not be substituted for manholes nor installed at the end of laterals greater than one hundred fifty (150) feet in length. (4-11-06)
- **i.** Testing. Testing shall conform with Section 500.3.4 of the "Idaho Standards for Public Works Construction," incorporated by reference into these rules at Section 004.
- **j.** Inverted Siphons. Inverted siphons shall have not less than two (2) barrels <u>or pipes</u>. They shall be provided with necessary appurtenances for maintenance, convenient flushing, and cleaning equipment. Design shall provide sufficient head and appropriate pipe sizes to secure sufficient velocities for design average flows.

(4-11-06)()

- **k.** Wastewater Pipelines in Relation to Surface Water Bodies. The top of all wastewater pipelines entering or crossing surface water bodies shall be at a sufficient depth below the natural bottom of the bed or otherwise designed to protect the wastewater pipeline. (4-11-06)
- ii. Structures. Wastewater pipeline outfalls, headwalls, manholes, gate boxes, or other structures shall be designed to address anticipated flood flows of the surface water bodies. (4-11-06)
- iii. Alignment. Wastewater pipelines crossing surface water bodies should be designed to cross the surface water body as nearly perpendicular to the surface water body flow as possible and shall be free from change in grade. (4-11-06)
- iv. Materials. Wastewater pipelines entering or crossing surface water bodies shall be constructed of water transmission pressure rated pipe with restrained joints conforming to Section 401.3.6 of the "Idaho Standards for Public Works Construction," incorporated by reference into these rules at Section 004, or other suitable pipe with restrained joints capable of being installed to remain watertight and free from changes in alignment or grade. Material used to back-fill the trench shall be concrete slurry, stone, coarse aggregate, washed gravel, or other materials which will not readily erode, cause siltation, damage pipe during placement, or corrode the pipe.
- v. Siltation and Erosion. Construction methods that will minimize siltation and erosion shall be employed. (4-11-06)
- **l.** Aerial Crossings. Support shall be provided for all joints in pipes utilized for aerial crossings. Restrained joints or structural casings are required. (4-11-06)
- m. Cross Connections Prohibited. There shall be no physical connections between a public or private potable water supply system and a wastewater pipeline, or appurtenance thereto, which would permit the passage of any wastewater or polluted water into the potable supply. No water pipe shall pass through or come into contact with any part of a wastewater pipeline manhole. (4-11-06)
 - **n.** Protection of Water Sources, Supplies. When wastewater pipelines are proposed in the vicinity of

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any drinking water sources or supplies or other drinking water facilities, requirements of IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems," shall be used to confirm acceptable isolation distances. (4-11-06)

0.	Non-Potable Pipelines in Relation to Potable Water Mains Pipelines.	(4-11-06) (
i.	Non-potable mains in relation to potable <i>water</i> mains.	(4-11-06) (
(1)	Parallel installation requirements.	(4-11-06
(a)	Greater than ten (10) feet separation: no conditions.	(4-11-06
	Ten (10) feet to six (6) feet separation: separate trenches, with potable main abtable main constructed with potable-water class pipe.	oove non-potable (4-11-06
	Less than six (6) feet separation: <u>design</u> engineer to submit data to the Department installation will protect public health and environment and non-potable main ses pipe.	
(d) potable mains.	Never in same trench. Non-potable mains are prohibited from being located in the	<u>e same trench a</u> (4-11-06)(
<u>(e)</u>	Pressure sewage mains shall be no closer horizontally than ten (10) feet from pota	ble mains.(
(2)	Non-potable mains crossing potable water mains requirements.	(4-11-06) (
(a) non-potable main	Eighteen (18) inches or more vertical separation with potable <i>water</i> main above n joint as far as possible from potable water main.	on-potable main (4-11-06)(
class pipe and no either side of pota crossing, or sleev crossing. Use of c	Less than eighteen (18) inches vertical separation: non-potable main constructed wan potable main joint as far as possible from potable water main; for a minimum able main with a single twenty (20) foot section of potable water class pipe being the non-potable pripe or potable main with potable water class pipe for ten (10) for concrete slurry encasement is not allowed as a substitute for sleeving. If potable main mon-potable main must also be supported through the crossing to prevent settling.	n of ten (10) fee g centered on the eet either side of ain is below non
<u>(c)</u>	Pressure sewage mains shall be no closer vertically than eighteen (18) inches from	potable mains.
relation to potabl Bureau as guidan shall apply to all r	<u>New</u> non-potable services in relation to potable water services and <u>new</u> non-potable water mains. The Department will use the Memorandum of Understanding water in determining the relative responsibilities for reviewing service lines. The following-potable services constructed or reconstructed after April 15, 2007, and where the olicensed professional engineer is the reviewing authority.	ith the Plumbing owing condition
(1)	Parallel installation requirements.	(4-11-06
(a)	Greater than six (6) feet separation: no conditions.	(4-11-06
	Less than six (6) feet separation: <u>design</u> engineer to submit data that this installar environment and non-potable service constructed with potable water class pipe.	ation will protec (4-11-06
	Never in same trench. New non-potable services are prohibited from being loc mains or potable services.	ated in the same (4-11-06)(
(2)	Non-potable services crossing potable water services or potable water mains requi	irements. (4-11-06)(

service:	(a) non-pota	Eighteen (18) inches or more separation with potable $\frac{water}{}$ service or main above non-potable ble main joint as far as possible from potable $\frac{water}{}$ main. $\frac{(4-11-06)(}{}$
possible	from po	Less than eighteen (18) inches separation or potable <i>water</i> service or main below non-potable ble service or main constructed with potable water class pipe and non-potable main joint as far as table <i>water</i> main; or sleeve non-potable <i>pipe</i> service or main with potable water class pipe for ten de of crossing. Use of concrete slurry encasement is not allowed as a substitute for sleeving. (4-11-06)()
construction concern	ction fact s with the	Existing potable services in relation to new non-potable mains, and existing non-potable services in otable mains, shall meet the requirements of Subsection 430.02.o.ii., where practical, based on cost, ors, and public health significance. If the Department determines that there are significant health see services, such as where a large existing service serves an apartment building or a shopping center, hall conform with Subsection 430.02.o.ii.
431	59 <u>39</u> 9.	(RESERVED).
<u>440.</u> DISPO		ITY AND DESIGN STANDARDS FOR MUNICIPAL WASTEWATER TREATMENT OR CILITIES - WASTEWATER PUMPING STATIONS.
stations individu stations	<u>ıal reside</u>	General. Section 440 regulates both public and private municipal wastewater collection pumps not regulate individual residence pump stations, individual residence grinder pump stations, or nece septic tank effluent pump stations. See Section 441 for regulation of those types of pump ()
operation	<u>onal and a</u>	Flooding. Wastewater pumping station structures and electrical and mechanical equipment shall be assicted damage by the one hundred (100) year flood. Wastewater pumping stations shall remain fully excessible during the twenty-five (25) year flood. Regulations of state and federal agencies regarding actions shall be considered.
all weat	<u>b.</u> her condi	Accessibility and Security. The pumping station shall be accessible by maintenance vehicles during tions.
the accu	<u>c.</u> ımulation	Grit. The wet well and pump station piping shall be designed to avoid operational problems from of grit.
from ty 450.07.	d. pical and	Safety. Provisions shall be made to consider the protection of maintenance personnel and visitors foreseeable hazards in accordance with the engineering standards of care. See also Subsection ()
Subsect	<u>02.</u> ions 440.	Design . Design of wastewater pumping stations shall meet the applicable requirements of 02.a. through 440.02.i. ()
submer	<u>a.</u> sible, suct	Type. Wastewater pumping stations in general use fall into four types: wet well/dry well, ion lift, and screw pump.
	<u>b.</u>	Structures. ()
tight.	<u>i.</u>	Separation. Dry wells shall be completely separated from the wet well. Common walls must be gas ()
		Equipment Removal. Provision shall be made to facilitate removing pumps, motors, and other electrical equipment. Individual pump and motor removal must not interfere with the continued tining pumps.
	<u>iii.</u>	Access and Safety Landings. ()

(1) apparatus shall b	Access. Suitable means of access for maintenance personnel wearing self-contained breat be provided to dry wells and to wet wells. See also Subsection 450.07.	thing)
(<u>2)</u> Health Administ	Safety Landings. Section 009 provides a reference to requirements of the Occupational Safety ration (OSHA), compliance with which may be required by other law.	y and
iv. pumping station	Buoyancy. Where high groundwater conditions are anticipated, buoyancy of the wastey structures shall be considered and, if necessary, adequate provisions shall be made for protection (<u>water</u> n.)
	Construction Materials. Materials shall be selected that are appropriate under condition rogen sulfide and other corrosive gases, greases, oils, and other constituents frequently presents particularly important in the selection of metals and paints.	
<u>c.</u>	<u>Pumps.</u> ()
<u>i.</u> unit out of servic	Multiple Units. Multiple pumps shall be provided. Units shall have capacity such that, with the ten the remaining units will have capacity to handle the design peak hourly flow.	any)
ii. from thirty (30) i shall also be con-	Protection Against Clogging. Pumps (except screw pumps) handling separate sanitary wasted inch or larger diameter sewers shall be protected by bar racks. Appropriate protection from clog sidered for small pumping stations.	water gging)
iii. at least three (3)	Pump Openings. Pumps handling unscreened raw wastewater shall be capable of passing spher inches in diameter or be a grinder pump.	res of
<u>iv.</u> a positive suction	Priming. The pump shall be placed so that, under normal operating conditions, it will operate un head, except as specified in Subsection 440.03.	inder)
V. Electrical Code,	Electrical Equipment. Section 009 provides a reference to the requirements of the Naticompliance with which may be required by other law.	ional)
<u>vi.</u> Institute ANSI/H	Intake. Section 008 provides a reference to the American National Standard Institute/Hydr II 9.8, American National Standard for Centrifugal and Vertical Pump Intake Design.	aulic)
<u>vii.</u>	Dry Well Dewatering. Dry wells shall be equipped with a positive means for dewatering. ()
of pump discharg accordance with	Pumping Rates. The pumps and controls of main pumping stations shall be selected to operate the pump control system design shall take into account, and minimize as needed, downstream in ge hydraulic surges. The station design capacity shall be based on peak hourly flow as determine Section 411 and shall be adequate to maintain a velocity in the force main sufficient to avoid some subsection 440.09.	npact ed in
<u>d.</u> pumps.	Controls. Water level control sensing devices shall be designed to allow for automatic control.	<u>rol of</u>
<u>e.</u>	<u>Valves.</u>)
<u>i.</u>	Suction Line. Suitable shutoff valves shall be placed on the suction lines of dry pit pumps. ()
	Discharge Line. Suitable means to facilitate pump removal and to prevent backflow shautoff and check valves shall be accessible for maintenance. The check valve shall be located between the ball valve if on vertical piping.	ll be ween
<u>f.</u>	Wet Wells.)
<u>i.</u>	Section 008 provides a reference to the American National Standard Institute/Hydraulic Inst	<u>titute</u>

ANSI/HI 9.8, American National Standard for Centrifugal and Vertical Pump Intake Design as a guidance document.
ii. Air Displacement. Covered wet wells shall have provisions for air displacement to the atmosphere, such as an inverted "j" tube or other means.
Safety Ventilation. Adequate ventilation shall be provided for all pump stations unless access is provided using confined space entry procedures. Where the dry well is below the ground surface, mechanical ventilation is required. If screens or mechanical equipment requiring maintenance or inspection are located in the wet well, permanently installed ventilation is required. There shall be no interconnection between the wet well and dry well ventilation systems. Section 008 provides a reference to guidance documents; see Subsection 008.11.
h. Flow Measurement. Suitable methods for measuring wastewater flow shall be addressed at all pumping stations.
i. Water Supply. There shall be no physical connection between any potable water supply and a wastewater pumping station which, under any conditions, might cause contamination of the potable water supply. If a potable water supply connection is made to the station, the connection shall comply with IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems".
03. Suction Lift Pump Stations - Special Considerations. Suction lift pumps shall meet the applicable requirements of Subsection 440.02.
a. Pump Priming and Lift Requirements. Suction lift pumps shall be of the self-priming or vacuum-priming type. Suction lift pump stations using dynamic suction lifts exceeding the limits outlined in Subsections 440.03.b. through 440.03.d. may be approved upon submission of factory certification of pump performance and detailed calculations indicating satisfactory performance under the proposed operating conditions.
b. Self-Priming Pumps. Self-priming pumps shall be capable of rapid priming and re-priming at the
b. Self-Priming Pumps. Self-priming pumps shall be capable of rapid priming and re-priming at the "lead pump on" elevation. Such self-priming and re-priming shall be accomplished automatically under design operating conditions.
"lead pump on" elevation. Such self-priming and re-priming shall be accomplished automatically under design
"lead pump on" elevation. Such self-priming and re-priming shall be accomplished automatically under design operating conditions. C. Vacuum-Priming Pumps. Vacuum-priming pump stations shall be equipped with dual vacuum pumps capable of automatically and completely removing air from the suction lift pump. The vacuum pumps shall be adequately protected from damage due to wastewater. The combined total of dynamic suction lift at the "pump off"
"lead pump on" elevation. Such self-priming and re-priming shall be accomplished automatically under design operating conditions. C. Vacuum-Priming Pumps. Vacuum-priming pump stations shall be equipped with dual vacuum pumps capable of automatically and completely removing air from the suction lift pump. The vacuum pumps shall be adequately protected from damage due to wastewater. The combined total of dynamic suction lift at the "pump off' elevation and required net positive suction head at design operating conditions shall not exceed twenty-two (22) feet. C. Vacuum-Priming Pumps. Vacuum-priming pump stations shall be equipped with dual vacuum pumps shall be adequately protected from damage due to wastewater. The combined total of dynamic suction lift at the "pump off' elevation and required net positive suction head at design operating conditions shall not exceed twenty-two (22) feet. C. Vacuum-Priming Pumps. Vacuum-priming pump stations shall be equipped with dual vacuum pumps shall be adequately protected from the suction lift pump. The vacuum pumps shall be abequately protected from the suction lift pump. The vacuum pumps shall be abequately protected from the suction lift pump. The vacuum pumps shall be adequately protected from the suction lift pump. The vacuum pumps shall be abequately protected from the suction lift pump. The vacuum pumps shall be adequately protected from the suction lift pump. The vacuum pumps shall be adequately protected from the suction lift pump. The vacuum pumps shall be adequately protected from the suction lift pump. The vacuum pumps shall be adequately protected from the suction lift pump. The vacuum pumps shall be adequately protected from the suction lift pump. The vacuum pumps shall be adequately protected from the suction lift pump. The vacuum pumps shall be adequately protected from the suction lift pump. The vacuum pumps shall be adequately protected from the suction lift pump. The vacuum pumps shall be adequately protected from the suction lift pump. The vacuum pump
"lead pump on" elevation. Such self-priming and re-priming shall be accomplished automatically under design operating conditions. C. Vacuum-Priming Pumps. Vacuum-priming pump stations shall be equipped with dual vacuum pumps capable of automatically and completely removing air from the suction lift pump. The vacuum pumps shall be adequately protected from damage due to wastewater. The combined total of dynamic suction lift at the "pump off' elevation and required net positive suction head at design operating conditions shall not exceed twenty-two (22) feet. C. Vacuum-Priming Pumps. Vacuum-priming pump stations shall be equipped with dual vacuum pumps capable of automatically and completely removing air from the suction lift pump. The vacuum pumps shall be adequately protected from damage due to wastewater. The combined total of dynamic suction lift at the "pump off' elevation and required net positive suction head at design operating conditions shall not exceed twenty-two (22) feet. C. Vacuum-Priming Pumps shall be equipped with dual vacuum pumps shall be adequately protected from the suction lift pump. The vacuum pumps shall be adequately protected from damage due to wastewater. The combined total of dynamic suction lift at the "pump off' elevation and required net positive suction head at design operating conditions shall not exceed twenty-two (22) feet. C. D. A. Equipment, Wet Well Access, and Valving Location. The pump equipment compartment shall be atherestic at the "pump equipment compartment and shall be affectively isolated from the wet well to prevent a hazardous and corrosive sewer atmosphere from entering the equipment compartment. Wet well access shall not be through the equipment compartment and shall be at least twenty-four (24) inches in diameter. Gasketed replacement plates shall be provided to cover the opening to the wet well for pump units removed for servicing. Valving shall not be located in the wet well. C. D. Submersible Pump Stations - Special Considerations. Submersible pump statio
c. Vacuum-Priming Pumps. Vacuum-priming pump stations shall be equipped with dual vacuum pumps capable of automatically and completely removing air from the suction lift pump. The vacuum pumps shall be adequately protected from damage due to wastewater. The combined total of dynamic suction lift at the "pump off' elevation and required net positive suction head at design operating conditions shall not exceed twenty-two (22) feet. d. Equipment, Wet Well Access, and Valving Location. The pump equipment compartment shall be above grade or offset and shall be effectively isolated from the wet well to prevent a hazardous and corrosive sewer atmosphere from entering the equipment compartment. Wet well access shall not be through the equipment compartment and shall be at least twenty-four (24) inches in diameter. Gasketed replacement plates shall be provided to cover the opening to the wet well for pump units removed for servicing. Valving shall not be located in the wet well. O4. Submersible Pump Stations - Special Considerations. Submersible pump stations shall meet the applicable requirements of Subsection 440.02, except as modified in Subsection 440.04. Construction. Submersible pumps and motors shall be designed specifically for raw wastewater use, including totally submerged operation during a portion of each pumping cycle. An effective method to detect

DEPARTMENT OF ENVIRONMENTAL QUALITY Docket No. 58-0116-0502 Wastewater Rules Proposed Rulemaking Electrical Code, compliance with which may be required by other law. Power Supply and Control Circuitry. Electrical supply, control, and alarm circuits shall be designed to provide strain relief and to allow disconnection from outside the wet well. Terminals and connectors shall be protected from corrosion by location outside the wet well or through use of watertight seals. Controls. The motor control center shall be located outside the wet well, be readily accessible, and be protected by a conduit seal or other appropriate measures to prevent the atmosphere of the wet well from gaining access to the control center. The seal shall be located so that the motor may be removed and electrically disconnected without disturbing the seal. When such equipment is exposed to weather, it is recommended that it meet the requirements of weatherproof equipment NEMA 3R or 4. Power Cord. Pump motor power cords shall be designed for flexibility and serviceability under conditions of extra hard usage. Ground fault interruption protection shall be used to de-energize the circuit in the event of any failure in the electrical integrity of the cable. Power cord terminal fittings shall be corrosion-resistant and constructed in a manner to prevent the entry of moisture into the cable, shall be provided with strain relief appurtenances, and shall be designed to facilitate field connecting. Valves. Valves required under Subsection 440.02 shall be located in a separate valve chamber. Provisions shall be made to remove or drain accumulated water from the valve chamber. The valve chamber may be dewatered to the wet well through a drain line with a gas and water tight valve. Check valves that are integral to the pump need not be located in a separate valve chamber provided that the valve can be removed from the wet well in accordance with Subsection 440.04. Access shall be provided in accordance with Subsection 440.02. Screw Pump Stations - Special Considerations. Screw pump stations shall meet the applicable requirements of Subsection 440.02. Covers. Covers or other means of excluding direct sunlight shall be provided as necessary to

<u>Alarm Systems</u>. Alarm systems with a backup power source shall be provided for pumping stations. The alarm shall be activated in cases of power failure, dry well sump and wet well high water levels, pump failure, unauthorized entry, or other cause of pump station malfunction. Pumping station alarms, including identification of the alarm condition, shall be transmitted to a twenty-four (24) hour response center. Audio-visual alarm systems may be acceptable in some cases in lieu of a transmitting system depending upon location, station holding capacity, and inspection frequency.

Pump Wells. A positive means of isolating individual screw pump wells shall be provided. (

Bearings. Submerged bearings shall be lubricated by an automated system without pump well

<u>07.</u> <u>Emergency Operation.</u>

eliminate adverse effects from temperature changes.

<u>b.</u>

dewatering.

- <u>a.</u> Objective. The objective of emergency operation is to prevent the unintended discharge of raw or partially treated wastewater to any waters or land surface and to protect public health by preventing back up of wastewater and subsequent discharge to basements, streets, and other public and private property.
- b. Emergency Pumping Capability. Emergency pumping capability is required for all new lift stations constructed after April 15, 2007. Emergency pumping capability is required for all existing lift stations that undergo a material modification or expansion unless overall system reliability can be proven adequate to the Department as shown in Subsections 440.07.b.i. and 440.07.b.ii. or overflow prevention is provided by adequate emergency storage capacity as defined in these rules. If required, emergency pumping capability shall be accomplished by connection of the station to at least two (2) independent utility substations as determined by and stated in a letter from the appropriate power provider, by provision of portable or in-place internal combustion engine equipment which will generate electrical or mechanical energy, or by the provision of portable pumping equipment. Such emergency standby systems shall have sufficient capacity to start up and maintain the total rated running capacity of the station.

Regardless of the rapid connection	e type of emergency standby system provided, a portable pump connection to the force main with capabilities and appropriate valving shall be provided outside the dry well and wet well.
i <u>.</u> based on data for	System reliability is considered adequate if power grid outages average three (3) or less per year the three (3) previous years with no more than six (6) outages in a single year.
	Outage duration averages less than four (4) hours based on data for the three (3) previous years, an one (1) outage during the three (3) previous year period exceeding eight (8) hours. Power loss for minutes qualifies as an outage.
<u>c.</u>	Equipment Requirements. ()
<u>i.</u> drive auxiliary p	General. The following general requirements shall apply to all internal combustion engines used to umps, service pumps through special drives, or electrical generating equipment:
shutting down the shall monitor for	Engine Protection. The engine must be protected from operating conditions that would result in ment. Unless continuous manual supervision is planned, protective equipment shall be capable of e engine and activating an alarm on site and as provided in Subsection 440.06. Protective equipment r conditions of low oil pressure and overheating, except that oil pressure monitoring will not be nes with splash lubrication.
(2) connected loads.	Size. The engine shall have adequate rated power to start and continuously operate under all
(3) addressed in the	Fuel Type. Reliability and ease of starting, especially during cold weather conditions, shall be selection of the type of fuel.
(4) applicable state a	Fuel Storage. Fuel storage and piping facilities if provided shall be constructed in accordance with and federal regulations.
<u>(5)</u>	Engine Ventilation. The engine shall have adequate ventilation of fuel vapors and exhaust gases.
(6) for regular starting	Routine Start-up. All emergency equipment shall be provided with instructions indicating the need ng and running of such units at full loads.
(7) of regular electric	Protection of Equipment. Emergency equipment shall be protected from damage at the restoration cal power.
ii. pumps are used,	Engine-Driven Pumping Equipment. Where permanently-installed or portable engine-driven the following requirements in addition to general requirements shall apply.
	Pumping Capacity. Engine-driven pumps shall meet the design pumping requirements unless is available for flows in excess of pump capacity. Pumps shall be designed for anticipated operating ding suction lift if applicable.
	Operation. The engine and pump shall be equipped to provide automatic start-up and operation of ent unless manual start-up and operation is justified. Provisions shall also be made for manual start-al start-up and operation is justified, storage capacity and alarm system must meet the requirements 0.07.c.ii(3).
(3) portable, adequa pump station fail	Portable Pumping Equipment. Where part or all of the engine-driven pumping equipment is te emergency storage capacity with alarm system shall be provided to allow time for detection of ure and transportation and hookup of the portable equipment.
iii. generating equip	Engine-Driven Generating Equipment. Where permanently-installed or portable engine-driven oment is used, the following requirements shall apply in addition to the general requirements of

DEPARTMENT OF ENVIRONMENTAL QUALITY Wastewater Rules	Docket No. 58-0116-0502 Proposed Rulemaking
Subsection 440.07.	()
(1) Generating Capacity.	()
(a) Generating unit size shall be adequate to provide lighting, ventilation, and other auxiliary equipment necessary for safe	power for pump motor starting current and for ty and proper operation of the lift station.()
(b) The operation of only one pump during periods of justification may be made on the basis of the design peak hourly flow length of power outage, and storage capacity.	auxiliary power supply must be justified. Such ws relative to single-pump capacity, anticipated ()
(c) Manual or special sequencing controls shall be provequipment has capacity to start all pumps simultaneously with auxilia	
(2) Operation. Provisions shall be made for automatic a manual start-up and operation is justified. Automatic transfer a requirements. The generator must be protected from operating condit Provisions shall be made to allow the engine to start and stabilize at of manual start-up and transfer is justified, storage capacity and alarm sy 440.07.c.iii(3).	witches shall be UL listed and meet NEC ions that would result in damage to equipment. perating speed before assuming the load. Where
(3) Portable Generating Equipment. Where portable provided, adequate emergency storage capacity with alarm system s pump station failure and transportation and connection of generating double throw switches shall be provided for connecting portable geshall be UL listed and meet NEC requirements.	hall be provided to allow time for detection of equipment. Special electrical connections and
iv. <u>Independent Utility Substations. Where independent utility Substations. Where independent each separate substation and its associated transmission lines shall station at its rated capacity.</u>	ent substations are used for emergency power, be capable of starting and operating the pump
O8. Instructions and Equipment. Wastewater pump supplied with a complete set of operational instructions, including et tools, and such spare parts as may be necessary.	ing stations and portable equipment shall be emergency procedures, maintenance schedules, ()
Operation and Maintenance.	()
a. An operation and maintenance manual shall be suffered by Section 425. Adherence to the terms of this approved responsible for maintaining the wastewater facility in a manner that as	manual shall be required. The owner shall be
<u>b.</u> For private municipal wastewater collection pump managerial, and financial capabilities of the private entity to properly long term shall be submitted to the Department for approval prior to compare the control of the private entity to properly long term shall be submitted to the Department for approval prior to control of the private entity to properly long term shall be submitted to the Department for approval prior to control of the private entity to properly long term shall be submitted to the Department for approval prior to control of the private entity to properly long term shall be submitted to the Department for approval prior to control of the private entity to properly long term shall be submitted to the Department for approval prior to control of the private entity to properly long term shall be submitted to the Department for approval prior to control of the private entity to properly long term shall be submitted to the Department for approval prior to control of the private entity to properly long term shall be submitted to the Department for approval prior to control of the private entity to properly long term shall be submitted to the Department for approval prior to control of the private entity to properly long term shall be submitted to the Department for approval prior to control of the private entity to properly long term shall be submitted to the Department for approval prior to control of the private entity to properly long term shall be submitted to the private entity to properly long term shall be submitted to the private entity to properly long term shall be submitted to the private entity to properly long term shall be submitted to the private entity to properly long term shall be submitted to the private entity to properly long term shall be submitted to the private entity to properly long term shall be submitted to the private entity to properly long term shall be submitted to the private entity to properly long term shall be submitted to the private entity to properly long ten	operate and maintain said pump station for the
10. Force Mains.	()
<u>a. Velocity and Diameter. At design pumping rates, a second shall be maintained.</u>	cleansing velocity of at least two (2) feet per
b. Air and Vacuum Relief Valve. An air relief valve shorevent air locking. The force main configuration and head conditional placement of vacuum relief valves.	
c. Termination. The force mains from other than in receiving manhole. Corrosion protection for the receiving manhole discharge points shall be evaluated.	ndividual grinder pump stations shall enter a shall be provided. Control of odors at such

	and Design Pressure. Pipe and joints shall be equal to water main strength materials suitable The force main, reaction blocking, thrust restraint, and station piping shall be designed	
withstand water hamm	ner pressures and associated cyclic reversal of stresses that are expected with the cycling s. The use of surge valves, surge tanks, or other suitable means to protect the force main again	of
severe pressure change		<u>18t</u>)
e. Spec	ial Construction. Force main construction near streams or water works structures and at wa	ter
	eet applicable provisions of Section 430.	
<u>f.</u> <u>Desig</u>	gn Friction Losses. (_)
i. Frict	ion Coefficient. Friction losses through force mains shall be based on the Hazen and William	ms
	stable methods. When the Hazen and Williams formula is used, the friction losses for varying evaluated for different types and ages of pipe.	ng)
ii. Max	imum Power Requirements. When initially installed, force mains will have a significant	tly
	the effect of the higher "C" factor shall be considered in calculating maximum power cycle time to prevent damage to the motor. The effects of higher discharge rates on select	
pumps and downstream	n facilities shall also be considered.	_)
g. <u>Ident</u>	tification. Where force mains are constructed of material which might cause the force main	to
	ble water mains, the force main shall be appropriately identified using trench tape saying "rater or other appropriate wording.	aw
<u>h.</u> <u>Leak</u>	tage Testing. Leakage tests shall be specified including testing methods and leakage limit with Sections 401.3.6 and 505.3.3 of the "Idaho Standards for Public Works Construction"	<u>ts.</u>
incorporated by referer	nce into these rules at Section 004.	
the "Idaho Standards f	st Blocking or Restraint. Thrust blocking or restraint shall conform with Sections 401.3.4 for Public Works Construction," incorporated by reference into these rules at Section 004,	
specific calculations re	eviewed and approved by the Department.)
j. Mair force main.	ntenance Considerations. Isolation valves shall be used if force mains connect into a comm	<u>on</u>)
<u>k.</u> <u>Cove</u> other physical damage.	er. Force mains shall be covered with sufficient earth or other insulation to prevent freezing	<u>or</u>)
441. FACILITY A	AND DESIGN STANDARDS FOR MUNICIPAL WASTEWATER TREATMENT O)R
DISPOSAL FACILIT	TIES - INDIVIDUAL RESIDENCE WASTEWATER PUMPING STATIONS.	
pump stations, and ind	eral. Section 441 regulates individual residence pump stations, individual residence grindividual residence septic tank effluent pump stations. This rule does not regulate grinder puridual residences or other structures.	<u>ler</u> np)
a Floo	ding. Wastewater pumping station structures and electrical and mechanical equipment shall	ho
protected from physica	ll damage by the one hundred (100) year flood. Wastewater pumping stations shall remain fu	11y
operational and accessibe considered.	ible during the twenty-five (25) year flood. Local, state and federal flood plain regulations sh	<u>all</u>)
<u>b.</u> Acceall weather conditions.	essibility and Security. The pumping station shall be accessible by maintenance vehicles duri	<u>ng</u>)
<u>02.</u> <u>Desi</u> Subsections 441.02.a. t	gn. Design of wastewater pumping stations shall meet the applicable requirements through 441.02.c.	<u>of</u> _)

Wastewater F	Rules Propo	sed Rulemaking
<u>a.</u>	Pumps.	<u>()</u>
<u>i.</u> However, for de	Multiple Units. Duplex pumps for individual residence wastewater pump statio developments having five (5) or more similar facilities, one (1) working spare pump	ns are not required. of for each size shall
	ad be readily available at all times.()	
three (3) inches	Pump Openings. Pumps handling raw wastewater shall be capable of passing as in diameter or be a grinder pump.	spheres of at least ()
<u>iii.</u> a positive suction	Priming. The pump shall be placed so that, under normal operating conditions, i ion head.	t will operate under ()
<u>b.</u> pumps.	Controls. Water level control sensing devices shall be designed to allow for a	utomatic control of ()
shutoff and chec	Valves. Suitable means to facilitate pump removal and to prevent backflow shaeck valves shall be accessible for maintenance.	all be provided. All
<u>03.</u>	Submersible Pump Stations - Special Considerations.	()
	Construction. Submersible pumps and motors shall be designed specifically totally submerged operation during a portion of each pumping cycle. An effective or potential seal failure shall be provided.	
b. entering or dew	Pump Removal. Submersible pumps shall be readily removable and replaceable watering the wet well, or disconnecting any piping in the wet well.	e without personnel ()
<u>c.</u> Electrical Code,	Electrical Equipment. Section 009 provides a reference to the requirement, compliance with which may be required by other law.	ts of the National
	Power Supply and Control Circuitry. Electrical supply, control, and alarm circuiting relief and to allow disconnection from outside the wet well. Terminals and a corrosion by location outside the wet well or through use of watertight seals.	
access to the conwithout disturb	Controls. The motor control center shall be located outside the wet well, be reary a conduit seal or other appropriate measures to prevent the atmosphere of the we ontrol center. The seal shall be located so that the motor may be removed and electroling the seal. When such equipment is exposed to weather, it is recommended weatherproof equipment NEMA 3R or 4.	t well from gaining ically disconnected
event of any fail constructed in	Power Cord. Pump motor power cords shall be designed for flexibility and sextra hard usage. Ground fault interruption protection shall be used to de-energize illure in the electrical integrity of the cable. Power cord terminal fittings shall be cord a manner to prevent the entry of moisture into the cable, shall be provided, and shall be designed to facilitate field connecting.	te the circuit in the rosion-resistant and
<u>04.</u> shall be activate	Alarm Systems. Audio-visual alarm systems shall be provided for pumping sted in cases of wet well high water levels.	stations. The alarm
of operational is may be necessar	<u>Instructions and Equipment</u> . Wastewater pumping stations shall be supplied instructions, including emergency procedures, maintenance schedules, tools, and ary.	
	Operation and Maintenance. An operation and maintenance manual shall be the Department as required by Section 425. Adherence to the terms of this approximates a shall be responsible for maintaining the wastewater facility in a manner that a shall be responsible for maintaining the wastewater facility in a manner that a shall be responsible for maintaining the wastewater facility in a manner that a shall be responsible for maintaining the wastewater facility in a manner that a shall be responsible for maintaining the wastewater facility in a manner than a shall be responsible for maintaining the wastewater facility in a manner that a shall be responsible for maintaining the wastewater facility in a manner than a shall be responsible for maintaining the wastewater facility in a manner than a shall be responsible for maintaining the wastewater facility in a manner than a shall be responsible for maintaining the wastewater facility in a manner than a shall be responsible for maintaining the wastewater facility in a manner than a shall be responsible for maintaining the wastewater facility in a manner than a shall be responsible for maintaining the wastewater facility in a manner than a shall be responsible for maintaining the wastewater facility in a manner than a shall be responsible for maintaining the wastewater facility in a manner than a shall be responsible for maintaining the wastewater facility in a shall be responsible for maintaining the wastewater facility in a shall be responsible for maintaining the wastewater facility in a shall be responsible for maintaining the wastewater facility in a shall be responsible for maintaining the wastewater facility in a shall be responsible for maintaining the wastewater facility in a shall be responsible for maintaining the wastewater facility in a shall be responsible for maintaining the wastewater facility in a shall be responsible for maintaining the wastewater facility in a shall be responsible for maintaining the wastewater facility in a shall be responsible for	ed manual shall be

DEPARTMENT OF ENVIRONMENTAL QUALITY

Docket No. 58-0116-0502

<u>07.</u>	Force Mains.
a. second shall b	Velocity and Diameter. At design pumping rates, a cleansing velocity of at least two (2) feet per e-maintained.
<u>b.</u> main crossings	Special Construction. Force main construction near streams or water works structures and at water shall meet applicable provisions of Section 430.
<u>c.</u>	Design Friction Losses.
	Friction Coefficient. Friction losses through force mains shall be based on the Hazen and Williams per acceptable methods. When the Hazen and Williams formula is used, the friction losses for varying shall be evaluated for different types and ages of pipe.
requirements a	Maximum Power Requirements. When initially installed, force mains will have a significantly actor. The effect of the higher "C" factor shall be considered in calculating maximum power and duty cycle time to prevent damage to the motor. The effects of higher discharge rates on selected winstream facilities shall also be considered.
d. be confused w sewage", "biol	Identification. Where force mains are constructed of material which might cause the force main to ith potable water mains, the force main shall be appropriately identified using trench tape saying "raw hazard", or other appropriate wording.
	Leakage Testing. Leakage tests shall be specified including testing methods and leakage limits, conform with Sections 401.3.6 and 505.3.3 of the "Idaho Standards for Public Works Construction," y reference into these rules at Section 004.
<u>f.</u> Public Works	Thrust Blocking. Thrust blocking shall conform with Sections 401.3.4 of the "Idaho Standards for Construction," incorporated by reference into these rules at Section 004.
g. force main.	Maintenance Considerations. Isolation valves shall be used if force mains connect into a common ()
<u>h.</u> other physical	Cover. Force mains shall be covered with sufficient earth or other insulation to prevent freezing or damage.
<u>442. – 449.</u>	(RESERVED).
	ILITY AND DESIGN STANDARDS FOR MUNICIPAL WASTEWATER TREATMENT OR ACILITIES - WASTEWATER TREATMENT FACILITIES - GENERAL.
<u>01.</u>	Plant Location.
<u>a.</u> for new facilit	General. The Preliminary Engineering Report or Facility Plan shall include a detailed discussion ies regarding site selection criteria and alternatives considered. See Sections 410 and 411.
fully operatio	Flood Protection. The treatment plant structures, electrical, and mechanical equipment shall be a physical damage by the one hundred (100) year flood. Treatment plants shall be designed to remain all and accessible during the one hundred (100) year flood. This requirement applies to new not to existing facilities undergoing major modification. Local, state and federal flood plain regulations lered.
	Setback Distances. New treatment and storage facilities for wastewater treatment shall have a ack of three hundred (300) feet from their property line. Neighboring property owners may grant long ts or other types of legal documents tied to the land to allow for similar setbacks from future
development of	

<u>02.</u>	Quality of Effluent. The required degree of wastewater treatment shall be based on the effluent
requirements and	d water quality standards established by the responsible state agency and/or appropriate federal
regulations inclu	ding discharge permit requirements. Combined sewer overflows are not allowed.
<u>03.</u>	<u>Design.</u> ()
Sections 410 and	Type of Treatment. The Preliminary Engineering Report or Facility Plan shall include a detailed ding criteria and alternatives considered in selection of the appropriate type of treatment. See 1411. The plant design shall provide the necessary flexibility to perform satisfactorily within the f waste characteristics and volumes.
oxpected range o	<u>, </u>
wastewater. The should not be co processes and eq operational relia conditions with a such new proce	Required Engineering Data for New Process and Application Evaluation. The policy of the encourage rather than obstruct the development of any valid methods or equipment for treatment of lack of inclusion in these standards of some types of wastewater treatment processes or equipment instrued as precluding their use. The Department may approve other types of wastewater treatment puipment that meet the performance standards set forth in these rules under the condition that the bility and effectiveness of the process or device shall have been demonstrated under similar suitably-sized unit operating at its design load conditions, to the extent required. To determine that sees and equipment or applications have a reasonable and substantial chance of success, the require the following: (
<u>i.</u> efficiency of sucl	Monitoring observations, including test results and engineering evaluations, demonstrating the processes.
<u>ii.</u>	Detailed description of the test methods. ()
iii. rates (including performance und	Testing, including appropriately-composited samples, under various ranges of strength and flow diurnal variations) and waste temperatures over a sufficient length of time to demonstrate er climatic and other conditions which may be encountered in the area of the proposed installations.
<u>iv.</u> and evaluations hanufacturer or o	Other appropriate information. The Department may require that appropriate testing be conducted be made under the supervision of a competent process engineer other than those employed by the developer.
c. or Facility Plan a	Design Period. The design period shall be clearly identified in the Preliminary Engineering Report s required in Sections 410 and 411.
<u>d.</u>	Design Loads. ()
<u>i.</u>	Hydraulic Design. ()
evaluated in the	Critical Flow Conditions. Flow conditions critical to the design of the treatment plant shall be as Preliminary Engineering Report required by Section 411. Initial low flow conditions must be design to minimize operational problems with freezing, septicity, flow measurements and solids ropriate design flows must be considered in evaluating unit processes, pumping, piping, etc. ()
forth in the disch	Treatment Plant Design Capacity. The treatment plant design capacity shall be as described in plant design flow selected shall meet the appropriate effluent and water quality standards that are set arge or other appropriate permit. For plants subject to high wet weather flows or overflow detention s, the design maximum flows that the plant is to treat on a sustained basis shall be specified. ()
(3) considered at all	Flow Equalization. Facilities for the equalization of flows and organic shock load shall be plants which are critically affected by surge loadings.
<u>ii.</u>	Organic Design. Organic loadings for wastewater treatment plant design shall be based on the

	ided in the Preliminary Engineering Report required by Section 411. The effects of septage excepted at the plant shall be given consideration and appropriate facilities shall be included on 520.	
iii. on the treatment j	Shock Effects. The shock effects of high concentrations and diurnal peaks for short periods of process, particularly for small treatment plants, shall be considered.	of time
<u>e.</u> Conduits shall be	Conduits. All piping and channels shall be designed to carry the maximum expected designed to avoid creation of pockets and corners where solids can accumulate.	flows.
which might accuin place of gate v	Gates or Valves. Suitable gates or valves shall be placed in channels to seal off unused se imulate solids. The use of shear gates, stop plates or stop planks is permitted where they can be alves or sluice gates. Non-corrodible materials shall be used for control gates and conduits.	
g. maintenance con future units.	Arrangement of Units. Component parts of the plant shall be arranged for appropriate operating venience, flexibility, economy, continuity of maximum effluent quality, and ease of installating of the plant shall be arranged for appropriate operating venience, flexibility, economy, continuity of maximum effluent quality, and ease of installating of the plant shall be arranged for appropriate operating venience, flexibility, economy, continuity of maximum effluent quality, and ease of installating of the plant shall be arranged for appropriate operating venience.	
h. organic and hydr observation, and control design.	Flow Division Control. Flow division control facilities shall be provided as necessary to a aulic loading control to plant process units and shall be designed for easy operator access, clamaintenance. Appropriate flow measurement facilities shall be incorporated in the flow discontrol to plant process units and shall be incorporated in the flow discontrol to plant process.	hange,
Federation Guida	Odor Management. An odor management plan shall be submitted to and approved by part of the Preliminary Engineering Report described in Section 411. The Water Environgence referenced in Section 008 of these rules provides guidance for use in developing and that is inclusive of the facilities being designed.	nment
j. protection during Guidance referent facilities in cold v	Cold Weather. Facilities shall be designed with regard for proper operation and maintenance cold weather temperatures expected at the specific location. The Water Environment Federated in Section 008 of these rules provides guidance for use in designing, operating and maintenance weather.	eration
Guidance referen	cold weather temperatures expected at the specific location. The Water Environment Fede ced in Section 008 of these rules provides guidance for use in designing, operating and maint	eration
Guidance referent facilities in cold	cold weather temperatures expected at the specific location. The Water Environment Federated in Section 008 of these rules provides guidance for use in designing, operating and maint weather.	eration
Guidance referent facilities in cold volume	Cold weather temperatures expected at the specific location. The Water Environment Federal Color in Section 008 of these rules provides guidance for use in designing, operating and maint weather. Plant Details. Unit Bypasses. Removal from Service. Properly located and arranged bypass structures and piping sheach unit of the plant can be removed from service independently. The bypass design shall facturing unit maintenance and emergency repair so as to minimize deterioration of effluent qualicess recovery upon return to normal operational mode. The actuation of all bypasses shall reoperating personnel. All power-actuated bypasses shall be designed to permit manual operation.	eration aining () () () all be cilitate ty and require
Guidance referent facilities in cold voltage of the facilities of the faci	Cold weather temperatures expected at the specific location. The Water Environment Federal Color in Section 008 of these rules provides guidance for use in designing, operating and maint weather. Plant Details. Unit Bypasses. Removal from Service. Properly located and arranged bypass structures and piping sheach unit of the plant can be removed from service independently. The bypass design shall facturing unit maintenance and emergency repair so as to minimize deterioration of effluent qualicess recovery upon return to normal operational mode. The actuation of all bypasses shall reoperating personnel. All power-actuated bypasses shall be designed to permit manual operation.	eration aining () () () () () () () () () ()
Guidance referent facilities in cold voltage fac	Cold weather temperatures expected at the specific location. The Water Environment Federal Color of these rules provides guidance for use in designing, operating and maint weather. Plant Details. Unit Bypasses. Removal from Service. Properly located and arranged bypass structures and piping she each unit of the plant can be removed from service independently. The bypass design shall facturing unit maintenance and emergency repair so as to minimize deterioration of effluent qualices recovery upon return to normal operational mode. The actuation of all bypasses shall reportating personnel. All power-actuated bypasses shall be designed to permit manual operation of a failure. Unit Bypass During Construction. Unit bypassing during construction shall be in accordance.	eration aining () () () eall be cilitate ty and equire tion in () e with () ded to bessible

	<u>d.</u>	Painting. The contents and direction of flow shall be identified on the piping in a contrasting color.
shall be	<u>e.</u> provided	Operating Equipment. Tools, accessories, and spare parts necessary for the plant operator's use
provide repair.	<u>f.</u> d, and co	Storage and Work Space Facilities. Readily accessible storage and work space facilities shall be insideration shall be given to provision of a garage for large equipment storage, maintenance, and
construc	g. etion.	Erosion Control During Construction. Effective site erosion control shall be provided during ()
	h. ped in acc l by Secti	Grading and Landscaping. Upon completion of the plant, the ground shall be graded and cordance with the Preliminary Engineering Report developed in the Preliminary Engineering Report on 411.
	<u>05.</u>	Plant Outfalls.
		Discharge Impact Control. The outfall shall be designed to discharge to the receiving stream in a ble to various reviewing authorities including, but not limited to, EPA, the Idaho Department of wality, U.S. Army Corp of Engineers, Idaho Department of Water Resources, and local jurisdictions.
		Protection and Maintenance. The outfall shall be so constructed and protected against the effects of or other hazards as to reasonably ensure its structural stability and freedom from stoppage. Hazards to be considered in designing outfalls.
	<u>c.</u>	Sampling Provisions. All outfalls shall be designed so that a sample of the effluent can be obtained
at a poii		e final treatment process and before discharge to or mixing with the receiving waters.
at a poii		
<u>at a poi</u>	nt after th	e final treatment process and before discharge to or mixing with the receiving waters.
power o	nt after the office of the off	e final treatment process and before discharge to or mixing with the receiving waters. (
power o design r	of after the officer of the officer of the officer of the officer offi	Essential Facilities. Emergency Power Facilities. General. All wastewater treatment plants shall be provided with an alternate source of electric g capability to allow continuity of operation during power failures. Refer to Subsection 440.07.c. for
power o design r	of after the officer of the officer of the officer of the officer offi	Essential Facilities. Emergency Power Facilities. General. All wastewater treatment plants shall be provided with an alternate source of electric g capability to allow continuity of operation during power failures. Refer to Subsection 440.07.c. for ents. Methods of providing alternate sources include: The connection of at least two (2) independent power sources such as substations. A power line tion is required if this method is used. The determination of the independent power sources shall be
power of design refrom eardone by energy.	i. r pumpin equireme (1) ch substathe appr (2) (3) driven pu	Essential Facilities. Emergency Power Facilities. General. All wastewater treatment plants shall be provided with an alternate source of electric g capability to allow continuity of operation during power failures. Refer to Subsection 440.07.c. for ents. Methods of providing alternate sources include: The connection of at least two (2) independent power sources such as substations. A power line tion is required if this method is used. The determination of the independent power sources shall be opriate power provider and stated in a letter from that provider.
power of design rate of the desi	i. (1) ch substathe appr (2) (3) driven pud to allow ii. the activate curred, a	Essential Facilities. Emergency Power Facilities. General. All wastewater treatment plants shall be provided with an alternate source of electric g capability to allow continuity of operation during power failures. Refer to Subsection 440.07.c. for ents. Methods of providing alternate sources include: The connection of at least two (2) independent power sources such as substations. A power line tion is required if this method is used. The determination of the independent power sources shall be opriate power provider and stated in a letter from that provider. In-place internal combustion engine equipment which will generate electrical or mechanical () Portable pumping equipment when only emergency pumping is required. Where part or all of the emping equipment is portable, adequate emergency storage capacity with alarm system shall be

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450.06.a.i.(2), is	required for disinfection facilities and dechlorination facilities.		<u>()</u>
<u>b.</u> which may be re	Water Supply. Section 009 provides a reference to the Uniform Plur quired by other law.	nbing Code, complianc	e with
with which may	Sanitary Facilities. Section 009 provides a reference to the Uniform be required by other law.	Plumbing Code, comp	oliance
d. inspection and m	Stairways. Stairways shall be installed in lieu of ladders for top accuaintenance (such as digesters, trickling filters, aeration tanks, clarifiers		routine ()
<u>e.</u>	Flow Measurement.	<u>.</u>	()
<u>i.</u>	Location. Flow measurement facilities shall be provided to measure to	he following flows:	()
<u>(1)</u>	Plant influent or effluent flow.		()
(2) accounted for by	If influent flow is significantly different from effluent flow, both shother flow measurement facilities.	all be measured or oth	erwise ()
<u>(3)</u>	Other flows required to be monitored under the provisions of the disc	harge permit.	()
(4) operational contr	Other flows such as return activated sludge, waste activated sludge, rol.	and recycle required fo	r plant ()
measurement eq	Facilities. Indicating, totalizing, and recording flow measurement development development must be sized to function to a satisfactory level of accuracy all be protected against freezing.	and totalizing only. Al	ll flow
	Hydraulic Conditions. Flow measurement equipment including app d critical control elevations shall be designed to ensure the required hand accuracy needed for the specific application.	proach and discharge c ydraulic conditions nec	onduit essary ()
equipment shall	Sampling Equipment. Effluent composite sampling equipment shall er facilities where necessary to meet discharge permit monitoring requialso be provided as needed for influent sampling and for monitoring hall be located prior to any process return flows.	rements. Composite sar	mpling
<u>07.</u>	Safety.		()
	General. Provisions shall be made to consider the protection of maint foreseeable hazards in accordance with the engineering standards of casigns designed to discourage the entrance of unauthorized persons and	are. Enclosure of the pla	
<u>b.</u> metering, splash hazardous or cor	Hazardous Chemical Handling. The materials utilized for storag guards, etc., shall be specially selected considering the physical and chrosive chemical.	e, piping, valves, pur emical characteristics o	mping, of each ()
<u>08.</u>	Laboratory.	<u>.</u>	()
control and whe The laboratory analytical work	All treatment plants shall include a laboratory for making the necess ontrol tests, except for those plants utilizing only processes not requiring resatisfactory off-site laboratory provisions are made to meet the pershall have sufficient size, bench space, equipment, and supplies to required by discharge permits, and to perform the process control treatment process included in the design.	ng laboratory testing fo mit monitoring require perform all self-mon	r plant ments. itoring

	<u>b.</u>	Treatment plant laboratory needs may be divided into the following three (3) general categorie (<u>es:</u>)
<u>oxygen</u>	<u>i.</u> , and chlo	Plants performing only basic operational testing; this typically includes pH, temperature, dissorine residual.	olved)
oxygen	<u>ii.</u> demand,	Plants performing more complex operational and permit laboratory tests including bioche suspended solids, and fecal coliform analysis.	mical)
<u>laborato</u>	<u>iii.</u> ory testing	Plants performing more complex operational, permit, industrial pretreatment, and multiple 2.	plant)
<u>450.08.</u>	<u>c.</u> b. must be	Expected minimum laboratory needs for the three (3) plant classifications set out in Subset addressed in the Preliminary Engineering Report.	ction)
	09. perational necessary	Instructions and Equipment. Wastewater treatment equipment shall be supplied with a complimation, including emergency procedures, maintenance schedules, tools and such spare page.	
approve required operation	d. The ow	Operation and Maintenance. An operation and maintenance manual shall be submitted to Department as required by Section 425. Adherence to the terms of this approved manual sharper shall be responsible for maintaining the wastewater facility in a manner that assures its des	all be
<u>451 </u>	<u>454.</u>	(RESERVED).	
<u>455.</u>	PRIVA	TE COMMUNITY MUNICIPAL WASTEWATER TREATMENT PLANTS.	
a drainf covered Individuseptic/te other vi	ield. Indiv by IDAI aal and S ech manu	Scope. Section 455 includes additional requirements for approval of private community munment plants with a surface water discharge, a discharge to land application or reuse, or a discharge vidual extended treatment package systems for on-site systems are not covered by these rules, be PA 58.01.03, "Individual/Subsurface Sewage Disposal Rules". See Technical Guidance Manusubsurface Sewage Disposal Systems available at http://www.deq.idaho.gov/water/assist busical updates.cfm. Private community municipal wastewater treatment plants may be considered mative is available. The use of these plants shall be fully protective of ground water and sundards.	rge to ut are al for iness/ l if no
	02. oal waste d in Section	Preliminary Engineering Report. The Preliminary Engineering Report for private communication water treatment plants shall include the following information, as well as relevant information on 411.	unity ation
by the I	a. Departmer	A Preliminary Engineering Report as described in Section 411 must be submitted to and apprint prior to submittal of plans and specifications.	roved)
Report	<u>b.</u> shall eval	In addition to the requirement in Subsection 455.02.a., at a minimum, the Preliminary Engine uate the following alternatives:	ering
	<u>i.</u>	Wastewater treatment plants (possibly several brands).)
	<u>ii.</u>	Self-contained lagoon.)
	<u>iii.</u>	Conventional septic tank and drainfield (or alternate drainfield design).)
	<u>iv.</u>	Surface water discharge including impact on TMDLs.)
	<u>V.</u>	Gravity or pressure sewer into nearby community (see the Department's Policy for Determ	ining

DEPARTMENT OF ENVIRONMENTAL QUALITY Docket No. 58-0116-0502 Wastewater Rules Proposed Rulemaking Reasonable Access to Existing Public Wastewater Facilities for distances to community systems and required hook-<u>up.)</u> Recirculating or intermittent sand filter. vi. vii. Annual operation and maintenance costs. viii. Land application/reuse. The Preliminary Engineering Report must present capital and operation and maintenance costs, monitoring requirements and reporting, preliminary sizing (design criteria), hydrogeologic studies, bonding, the operation and maintenance manual, district health department requirements (nutrient/pathogen study), and all requirements of Section 411. The Preliminary Engineering Report must thoroughly analyze the effect of the treatment plant discharge on ground water quality, especially bacteria, viruses, phosphorus and nitrates as compared to the alternatives listed in Subsection 455.02.b. <u>03.</u> Plan and Specification Approval. Plans and specifications for the collection and treatment systems will not be approved until the owner is in receipt of one of the following (whichever is applicable): A draft NPDES permit from EPA for surface water discharges; or <u>i.</u> ii. A draft wastewater land application/reuse permit from the Department. For a subsurface treatment and disposal system (SSDS), the plans and specifications for the b. collection system will not be approved until the owner is in receipt of the SSDS permit from the district health department. For private community municipal wastewater treatment plants storing their treated effluent prior to irrigation or surface water discharge, the following additional items shall be considered by the Department, prior to approving either the treatment systems or the disposal option. These include, but are not limited to, sealing of storage ponds, filtration and disinfection requirements just prior to irrigation use or surface water discharge, the degree of treatment, and the intended type and area of irrigation. See IDAPA 58.01.17, "Rules for the Reclamation and Reuse of Municipal and Industrial Wastewater." Private Community Municipal Wastewater Treatment Plants. <u>04.</u> The private community municipal wastewater treatment plant must be NSF approved or equivalent as approved by the Department and the plant shall have at least two (2) full years of operating data on five (5) separate installations in the United States. The data submittal shall include the name, address, and telephone number for a regulatory agency contact person familiar with the performance of each reported installation. For individual package treatment plants with septic tanks and drainfields, IDAPA 58.01.03, "Individual/Subsurface Sewage Disposal Rules," apply and owners must comply with the requirements of those rules. The owner shall provide for a minimum of a Class II operator in responsible charge of the facility. The actual operator license classification requirement will depend on the classification of the system based on Section 202 and the licensure requirements of Section 203. If the operator is provided by contract, the contract shall be submitted to the Department for review and approval. A sludge management plan must be submitted to and approved by the Department. The plan must

<u>d.</u>

include collection, treatment and disposal of the sludge. Additionally, a signed contract that provides for ultimate

The private community municipal wastewater treatment plant shall be a dual train type (or

legal disposal of the sludge shall be submitted to the Department prior to plan and specification approval.

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- A compliance agreement schedule authorized by Section 39-116A, Idaho Code, shall be required for each private community municipal wastewater treatment plant approved. If a private community municipal wastewater treatment plant installation is only a temporary or interim measure in a long-term plan, a compliance agreement schedule will include a sunset clause with a date for the private community municipal wastewater treatment plant to cease operation and will require the plant owner to fund and construct the eventual hookup to the public municipal wastewater collection system when the system becomes reasonably accessible. For the purpose of Section 455, "reasonably accessible" shall mean when the public municipal wastewater collection system is located within one thousand (1,000) feet minimum of any portion of the discharge piping of the private community municipal wastewater treatment plant and the owner of the public municipal wastewater collection system provides a "will serve" letter. The Department will use its Policy for Determining Reasonable Access to Existing Public Wastewater Facilities to determine if a private community municipal wastewater treatment plant may also be found to be reasonably accessible at distances greater than one thousand (1,000) feet. If the Department determines that a proposed private community municipal wastewater treatment plant may be denied. The compliance agreement schedule shall address such things as operation and maintenance requirements and monitoring and reporting requirements.
- Monitoring and Reporting. As a part of the compliance agreement schedule discussed in Subsection 455.04.e., the owner and the Department shall create monitoring and reporting requirements for the Department to approve. The owner shall be responsible for complying with the requirements of the compliance agreement schedule.
- h. A financial management plan shall be provided to show how the financial management of the system will occur. This will explain the formation of a required maintenance entity to provide continued funding, operation and maintenance of the private community municipal wastewater treatment plant and drainfields. The entity must have the authority to collect fees for operation and maintenance, including additional money for a sinking fund for replacement costs and for possible future connection to an available public municipal wastewater collection system.
- j. Minimum Size. The minimum size of a private community municipal wastewater treatment plant allowed under these rules is twenty-five thousand (25,000) gallons per day design capacity.
- 05. Private Community Municipal Wastewater Treatment Plants with Drainfields. In addition to the applicable requirements of these rules, the subsurface sewage disposal design, construction and operation shall comply with IDAPA 58.01.03, "Individual/Subsurface Sewage Disposal Rules." The exception to this is for Class A reclaimed wastewater reuse facilities that discharge to the subsurface. These reuse facilities are regulated by IDAPA 58.01.17, "Rules for the Reclamation and Reuse of Municipal and Industrial Wastewater".
- <u>06.</u> <u>Private Community Municipal Wastewater Treatment Plants Discharging to Surface Water.</u>

 In addition to the applicable requirements of these rules, an NPDES permit is required for a facility discharging to surface water.
- <u>07.</u> Private Community Municipal Wastewater Treatment Plants Discharging to a Land Application or Reuse Site.

Wastewater R	T OF ENVIRONMENTAL QUALITY Jules	Docket No. 58-0116-0502 Proposed Rulemaking
<u>a.</u> for land applicat	In addition to the applicable requirements of these rules, a land application or reuse of the effluent.	cation/reuse permit is required
<u>b.</u> established in th Industrial Waster	For a discharge to a land application or reuse site, treatment and me land application/reuse permit. See the Guidance for Reclamation water, http://www.deq.idaho.gov/water/permits forms/permitting/guid	and Reuse of Municipal and
letter from the prospecification ap	Private Community Municipal Wastewater Treatment Plant tewater Collection System. In addition to the applicable requirement ublic municipal wastewater collection system shall be submitted to the proval for private community municipal wastewater treatment plantage waster collection system.	s of these rules, a "will-serve" e Department prior to plan and
<u>456 459.</u>	(RESERVED).	
460. FACIL DISPOSAL FA	ITY AND DESIGN STANDARDS FOR MUNICIPAL WASTE' CILITIES - SCREENING AND GRIT REMOVAL.	WATER TREATMENT OR
<u>01.</u>	Screening Devices and Comminutors.	()
provided and equ	Screening, coarse or fine, or comminutors shall be required for all mer types of plants. These facilities shall be designed for peak hourly fluipped with the necessary gates to isolate flow from any screening unit vatering each unit. The channel preceding and following the screen	ow. Multiple channels shall be . Provisions shall also be made
two (2) or more	For mechanical plants with design average flow less than one million nechanically cleaned screen is used, an auxiliary manually cleaned screens are used, the design shall provide for ng the capability to screen the design peak instantaneous flows.	reen shall be provided. Where
	Grit Removal Facilities. Grit removal and handling facilities shall ment plants. Consideration shall be given to possible damaging effects equipment, and the need for additional storage capacity in treatment.	s on pumps, comminutors, and
<u>461 469.</u>	(RESERVED).	
	ITY AND DESIGN STANDARDS FOR MUNICIPAL WASTE' CILITIES - SETTLING.	WATER TREATMENT OR
<u>01.</u>	General.	<u>()</u>
	Where settling is being used, a minimum of two (2) units capable hall be provided in all plants where design average flows exceed one its not having multiple units shall include other provisions to assure contacts.	e hundred thousand (100,000)
b. shall be calcular determined shall	The design of settling facilities shall include a minimum of two (2) uted for both design average and design peak hourly flow condition be used.	units with flow splitting. Sizing s, and the larger surface area
<u>c.</u> scum removal.	The plant design shall allow for isolation of each unit. The plant des	sign shall allow for sludge and
<u>d.</u>	Baffling shall be designed to control solids carry-over.	()

<u>e.</u>

The minimum side depth for primary settling facilities shall be ten (10) feet.

	<u>f.</u>	The minimum side depth for secondary settling facilities shall be twelve (12) feet.)
<u>471 4</u>	<u> 179.</u>	(RESERVED)	
480. DISPOS	FACILI SAL FAC	ITY AND DESIGN STANDARDS FOR MUNICIPAL WASTEWATER TREATMENT CILITIES - SLUDGE PROCESSING, STORAGE, AND DISPOSAL.	Γ OR
	nt plants.	Facilities. Facilities for processing sludge shall be provided for all mechanical waste Facilities shall be capable of processing sludge to a form suitable for ultimate disposal. ation shall be in accordance with applicable permit and federal regulations.	
manageı	02. ment plan	Design . Sludge processing, storage and disposal facility design shall comply with the sain the Preliminary Engineering Report.	ludge)
having r		Multiple Units. Multiple units capable of independent operation are desirable and shalants where design average flows exceed one hundred thousand (100,000) gallons/day. Plan units shall include other provisions to assure continuity of treatment. The plant design shall allounit.	ts not
<u>481 4</u>	<u>189.</u>	(RESERVED).	
If biolog	SAL FAC	TTY AND DESIGN STANDARDS FOR MUNICIPAL WASTEWATER TREATMENT. CILITIES - BIOLOGICAL TREATMENT. tment is used, the process shall be determined in the Preliminary Engineering Report. The cinfluent characteristics and effluent requirements.	
	<u>01.</u>	Trickling Filters.)
grease c		General. Trickling filters shall be preceded by effective settling tanks equipped with scur devices or other suitable pretreatment facilities.	n and
system, flow, inc	including	Hydraulics. The flow will be uniformly distributed across the surface of the media. The provide capacity for the design peak becirculation.	
	<u>c.</u>	Media.)
support:		Quality. The media shall be appropriate for the wastewater and shall be of sufficient strenger design loading and build up of biomass.	gth to
	<u>ii.</u>	Depth. Trickling filter media shall have a minimum depth of six (6) feet above the underdrain	<u>is.</u>
	<u>d.</u>	<u>Underdrainage System.</u>)
		Arrangement. Underdrains shall be provided and the underdrainage system shall cover the Inlet openings into the underdrains shall have an unsubmerged gross combined area equal to a nt of the surface area of the filter.	
permit f	<u>ii.</u> ree passaş	<u>Ventilation. The underdrainage system, effluent channels, and effluent pipe shall be design ge of air.</u>	ned to
	<u>e.</u>	Special Features.)
they may	<u>i.</u> y be prop	Maintenance. All distribution devices, underdrains, channels, and pipes shall be installed serly maintained, flushed or drained.	o that

<u>ii.</u> climatic conditio	Winter Protection. Covers shall be provided to maintain operation and treatment efficier ons are expected to result in problems due to cold temperatures.	cies wher
	Recirculation. The piping system shall be designed for recirculation as required to act. The recirculation rate shall be variable and subject to plant operator control at the range of recirculation rate versus design average flow). A minimum of two (2) recirculation pump	of 0.5:1 up
<u>f.</u>	Rotary Distributor Seals. Mercury seals shall not be permitted.	
experience. Suc	Unit Sizing. Required volumes of filter media shall be based upon pilot testing with the any of the various empirical design equations that have been verified through actual ch calculations must be submitted to the Department if pilot testing is not utilized. Trich hall consider peak organic load conditions including the oxygen demands due to solids and	full scale kling filte
<u>02.</u>	Activated Sludge.	(
<u>a.</u>	Aeration.	
solids retention size of treatmen temperature, all Calculations sha	Capacities and Permissible Loadings. The size of the aeration tank for any particular adall be determined by full scale experience, pilot plant studies, or rational calculations based time, food to microorganism ratio, and mixed liquor suspended solids levels. Other factor at plant, diurnal load variations, and degree of treatment required, shall also be considered. In kalinity, pH, and reactor dissolved oxygen shall be considered when designing for ni all be submitted to the Department in the Preliminary Engineering Report to justify the contank capacity.	mainly or rs, such as n addition trification
<u>ii.</u>	Arrangement of Aeration Tanks.	
	Dimensions. The dimensions of each aeration tank or return sludge reaeration tank shall active mixing and utilization of air. An exception is that horizontally mixed aeration tanks sless than five point five (5.5) feet.	
(2) two (2) or more	Number of Units. Total aeration tank volume plus redundancy requirements shall be divided equal units, capable of independent operation.	ded among
<u>(3)</u>	Inlets and Outlets.	
the design peak	Controls. Inlets and outlets for each aeration tank unit shall be designed to control flow to accuracy and to maintain reasonably constant liquid level. The properties of the system shall day flow to be treated with any single aeration tank unit out of service. The properties of design peak hour hydraulic flow to be carried with any single aeration tank unit out of service.	nall permi the system
(<u>b)</u> self-cleansing.	Conduits. Channels and pipes carrying liquids with solids in suspension shall be design	gned to be
(c) of scum and foa	Scum and Foam Control. Aeration tanks shall be designed to include adequate control out.	or remova
<u>(4)</u>	Freeboard. All aeration tanks should have a freeboard of not less than eighteen (18) inches	es. (
<u>iii.</u>	Aeration Equipment.	
(1) treatment and b	General. Oxygen requirements generally depend on maximum diurnal organic loading, level of suspended solids concentration to be maintained in the aeration tank mixed liquor	degree o

equipment shall be capable of maintaining a minimum of two point zero (2.0) mg/L of dissolved oxygen in the mixed
liquor at all times and provide thorough mixing of the mixed liquor (for a horizontally mixed aeration tank system, an
average velocity of one (1) foot per second must be maintained). In the absence of experimentally determined values,
the design oxygen requirements for all activated sludge processes shall be 1.1 lb 0 ₂ per lb of design peak hourly
BOD ₅ applied to the aeration tanks, with the exception of the extended aeration process, for which the value shall be
one point five (1.5) to include endogenous respiration requirements.
(a) Where nitrification is required or will occur, the oxygen requirement for oxidizing ammonia must
be added to the above requirement for carbonaceous BOD ₅ removal and endogenous respiration requirements. The
nitrogenous oxygen demand (NOD) shall be taken as four point six (4.6) times the diurnal peak hourly total Kjeldahl
nitrogen content of the aeration tank influent. In addition, the oxygen demands due to recycle flows must be
considered due to the high concentrations of BOD ₅ and total Kjeldahl nitrogen associated with such flows. ()
<u>-</u>
(b) Meet maximum oxygen demand and maintain process performance with the largest unit out of
service. Provide for varying the amount of oxygen transferred in proportion to the load demand on the plant. ()
(2) Diffused Air Systems. Air requirements including, but not limited to, process air, channel aeration,
aerobic digestion, and miscellaneous plant air shall be submitted to the Department in the Preliminary Engineering
Report. Blowers shall be provided in multiple units, so arranged and in such capacities as to meet the maximum air
demand with the single largest unit out of service. The design shall also provide for varying the volume of air
delivered in proportion to the load demand of the plant. Aeration equipment shall be easily adjustable in increments
and shall maintain solids suspension within these limits.
(3) Mechanical Aeration Systems.
(a) Oxygen Transfer Performance. The mechanism and drive unit shall be designed for the expected
conditions in the aeration tank in terms of the power performance. Certified testing shall be provided to verify
mechanical aerator performance. Refer to applicable provisions of Subsection 490.02. In the absence of specific
design information, the oxygen requirements shall be calculated for mechanical aeration systems using a transfer rate
not to exceed two (2) pounds of oxygen per horsepower per hour in clean water under standard test conditions.
Design transfer efficiencies shall be included in the specifications.
Design transfer emercies sharr be included in the specimentoris.
(b) Design Requirements. Motors, gear housing, bearings, grease fittings, etc., shall be easily
accessible and protected from inundation and spray as necessary for proper functioning of the unit.
accessible and protected from mundation and spray as necessary for proper functioning of the unit.
(a) Winter Distriction Where extended add weather conditions occur the constant makenism and
(c) Winter Protection. Where extended cold weather conditions occur, the aerator mechanism and
associated structure shall be protected from freezing due to splashing. Due to high heat loss, subsequent treatment
units shall be protected from freezing. ()
<u>b.</u> <u>Non-Aerated Tanks or Zones. Non-aerated tanks or zones within aeration tanks shall have mixing</u>
equipment adequate to fully mix the contents. Provide calculations in the Preliminary Engineering Report for sizing
of this equipment.
c. Return Sludge Equipment. ()
, _ ,
i. Return Sludge Rate. The return sludge rate of withdrawal from the final settling tank is a function
of the concentration of suspended solids in the mixed liquor entering it, the sludge volume index of these solids, and
the length of time these solids are retained in the settling tank. The rate of sludge return shall be varied by means of
adjustable weirs, variable speed pumps, or timers (small plants) to pump sludge.
adjustation were, variable speed paints, of timers (smail plants) to pump studge.
ii. Return Sludge Pumps. If a consolidated return sludge pump facility is used, the maximum return
sludge capacity shall be obtained with the largest pump out of service. If individual sludge pumps are used at each
settling basin, the pumps shall be designed to facilitate their rapid removal and replacement with a standby unit stored
NOUTRE DANGE OF THE PROPERTY OF DESIGNED OF ALTHURIE OF TRADICIPATION AND TEDRACEMENT WHILE A STANGON HIM STOPPO
at the treatment plant site. If air lifts are used for returning sludge from each settling tank hopper, no standby unit will
at the treatment plant site. If air lifts are used for returning sludge from each settling tank hopper, no standby unit will be required provided the design of the air lifts facilitate their rapid and easy cleaning and provided other suitable
at the treatment plant site. If air lifts are used for returning sludge from each settling tank hopper, no standby unit will

	Return Sludge Piping. Discharge piping should be at least four (4) inches in diameter and should be at least	ing at
	ludge rates. Suitable devices for observing, sampling, and controlling return activated sludge ng tank hopper shall be provided.)
<u>iv.</u> activated sludge	Waste Sludge Facilities. Means for observing, measuring, sampling, and controlling flow shall be provided.	waste)
facilities and sh Subsection 490.	Sequencing Batch Reactors. The fill and draw mode of the activated sludge process computed in Batch Reactor may be used in Idaho. The design must be based on experience at nall meet the applicable requirements under Sections 450, 470 and 490, except as modified 02.d.i. through 490.02.d.xi. Continuity and reliability of treatment equal to that of the continuity of the activated sludge process shall be provided.	other ed in
<u>i.</u>	At least two (2) tanks should be provided.)
without changin	The decantable volume and decanter capacity of the sequencing batch reactor system with of service should be sized to pass at least seventy-five (75) percent of the design maximum day g cycle times. A decantable volume of at least four (4) hours with the largest basin out of sendred (100) percent of the design maximum day flow is permissible.	<u>flow</u>
<u>iii.</u> shall be evaluate	System reliability with any single tank unit out of service and the instantaneous delivery of a in the design of decanter weirs and approach velocities.	flow)
<u>iv.</u>	Reactor design shall provide for scum removal and prevent overflow of settled solids.)
v. throughout the decant phase are	An adequate zone of separation between the sludge blanket and the decanter(s) shall be maint decant phase. Decanters which draw the treated effluent from near the water surface throughout recommended.	
<u>vi.</u>	Solids management to accommodate basin dewatering shall be considered.)
	The blowers shall be provided in multiple units, so arranged and in such capacities as to me mand in the oxic portions of the fill/react and react phases of the cycle with the single largest unsubsection 490.02.	
viii. phosphorus remo	Mechanical mixing independent of aeration shall be provided for all systems where biologoval or denitrification is required.	ogical)
effluent quality	Flow paced composite sampling equipment and continuous turbidity metering for sepa effluent quality from each basin may be required by the regulatory agency. All twenty-four (24) composite samples for compliance reporting or monitoring plant operations shall be flow-pace collected at the beginning and end of each decant phase.	hour
single controller retain program n etc.) through a process control. fail-safe control	A programmable logic controller (PLC) shall be provided. Multiple PLCs shall be provided our rapid process recovery or minimize the deterioration of effluent quality from the failure. An uninterruptible power supply with electrical surge protection shall be provided for each Pinemory (i.e., process control program, last-known set points and measured process/equipment spower loss. A hard-wired backup for manual override shall be provided in addition to auto Both automatic and manual controls shall allow independent operation of each tank. In addit allowing at least twenty (20) minutes of settling between the react and decant phases shall-safe control shall not be adjusted by the operator.	e of a LC to tatus, matic ion, a
<u>xi.</u>	Provide sufficient quantity of spare parts, especially PLC module and valve operators.	
<u>03.</u>	Other Biological Systems.)

accordance with	General. Biological treatment processes not included in these rules shall be considered in Subsection 450.03.
plant layout, cale	Membrane Bioreactors. Details for Membrane Bioreactor (MBR) plants shall be submitted an Preliminary Engineering Report. In addition to the requirements of Section 411, details shall include culations for hydraulic capacity and air required, membrane technology considered and membrane selected, results from similar type MBR plants already in operation, and anticipated sludged.
<u>491 492.</u>	(RESERVED).
493. FACIL DISPOSAL FACIL	ITY AND DESIGN STANDARDS FOR MUNICIPAL WASTEWATER TREATMENT OF CILITIES - WASTEWATER LAGOONS.
<u>01.</u>	General.
other municipal also sometimes single-family dv	These rules pertain to all new and existing municipal wastewater lagoons, including discharging of lagoons, municipal wastewater treatment lagoons, municipal wastewater storage lagoons, and an wastewater lagoons that, if leaking, have the potential to degrade waters of the state. Lagoons are referred to as ponds. Section 493 does not apply to industrial lagoons or mining tailings ponds wellings utilizing a single lagoon, two (2) cell infiltrative system, those animal waste lagoon wiew under Section 39-118, Idaho Code, or storm water ponds.
b. the requirements subsections.	Lagoons utilized for equalization, percolation, evaporation, and sludge storage do not have to meet set forth in Subsections 493.05 through 493.10, but must comply with all other applicable (
issued by the Dir of the construction professional engalternative analysis an existing lagoo	Seepage Testing Requirements. All existing lagoons covered under these rules shall be seepage of licensed professional engineer by April 15, 2012, unless otherwise specified in a current permeter, and all new lagoons must be seepage tested by a Idaho licensed professional engineer as a particular permeter, and all lagoons covered under these rules must be seepage tested by a Idaho license ineer every five (5) years after the initial testing. The procedure for performing a seepage test of the seepage testing done and results submitted to the Department before April 15, 2012, the seepage testing done and results submitted to the Department before April 15, 2012, the seepage testing to comply with this requirement.
<u>03.</u>	Allowable Seepage Rates.
<u>a.</u> gallons per acre j	Design Standard. Lagoons shall be designed for a maximum leakage rate of five hundred (500 per day.
(3400) gallons pe	Operating Standard. The leakage rate for lagoons constructed after April 15, 2007 shall be no morne hundred twenty-five (0.125) inches (1/8 inch) per day, which is approximately thirty-four hundred acre per day. The leakage rate for existing lagoons constructed prior to April 15, 2007 shall be no oint twenty-five (0.25) inches (1/4 inch) per day.
	For lagoons located over sensitive aquifers or near 303d listed stream segments, the operating considerably lower than stated in Subsection 493.03.b., based on a ground water investigation and transport of contaminants to determine the effect of the seepage on the aquifer or stream (
04. leaking at a rate schedule negotia	Requirements for Lagoons Leaking Above the Allowable Amount. If a lagoon is found to be higher than that allowed under Subsection 493.03.b., the owner of the lagoon, in accordance with ted with and approved by the Director, is required to:
<u>a.</u>	Repair the leak and retest for compliance;

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<u>b.</u>	Re-line the lagoon and retest for compliance;	<u>()</u>
<u>c.</u>	Drain the lagoon in an approved manner and stop using the lagoon; or	<u>r</u> ()
"Water Quality IDAPA 58.01.0	Determine the impact of the leaking lagoon on the environment based by impact must comply with IDAPA 58.01.11, "Ground Water Quality Standards". If the impact does not comply with IDAPA 58.01.11, "Ground Water Quality Standards," the owner of the lagoon must follow of 1.04.a. through 493.04.c.	Rule," and IDAPA 58.01.02, und Water Quality Rule," and
<u>05.</u>	Location.	<u>()</u>
toe of the exter	Wastewater treatment lagoons shall be placed a minimum of twenty lines. In all cases, the design location shall consider odors, nuisancior slope of the dike or to the top of the cut for a lagoon placed intining or other local requirements shall apply.	es, etc. This distance is to the
b. and the maximu	Ground Water Separation. A minimum separation of two (2) feet being ground water elevation shall be maintained.	tween the bottom of the pond
<u>c.</u> bedrock formati	Bedrock Separation. A minimum separation of two (2) feet between shall be maintained.	en the pond bottom and any
<u>06.</u>	Basis of Design.	<u>()</u>
	Design variables such as climatic conditions, odor, pond depth, multi- nent units must be considered with respect to applicable standards for iform, dissolved oxygen (DO), pH, and other effluent requirements and	BOD ₅ , total suspended solids
<u>b.</u> pond design.	The Preliminary Engineering Report shall include all design criteri	a for the development of the ()
encountered in t	The reaction rate coefficient for domestic wastewater which includes tially treated wastewater must be determined experimentally for various the lagoons or actual data from lagoons in similar climates. Conversion of tures shall be made based on experimental data.	us conditions which might be
of maintaining a weather shall be	Oxygen requirements generally will depend on the design average ne concentration of suspended solids to be maintained. If needed, aeratic minimum dissolved oxygen level of two (2) mg/L in the ponds at all tile provided for electrical controls. Aerated cells shall be followed by a pum of twenty-four (24) hours.	on equipment shall be capable mes. Suitable protection from
<u>e.</u>	See Subsection 490.02 for details on aeration equipment.	<u>()</u>
<u>07.</u>	Industrial Wastes as a Part of the Municipal Wastewater.	<u>()</u>
<u>a.</u>	Consideration shall be given to the type and effects of industrial waste	es on the treatment process.
<u>b.</u> may have upon	Industrial wastes shall not be discharged to ponds without assessment the treatment process or discharge requirements in accordance with stat	
<u>08.</u>	Number of Cells Required.	<u>()</u>
a. facilitate both se	A wastewater treatment pond system shall consist of a minimum or eries and parallel operations. Two (2) cell systems may be utilized in v	of three (3) cells designed to

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than fifty thousar	ad (50,000) gallons per day.
<u>b.</u> affecting the tran	All systems shall be designed with piping flexibility to permit isolation of any cell without sfer and discharge capabilities of the total system.
<u>09.</u>	Pond Construction Details. ()
<u>a.</u>	Embankments and Dikes. ()
	Material. Dikes shall be constructed of relatively impervious soil and compacted to at least ninety-Standard Proctor Density to form a stable structure. Vegetation and other unsuitable materials shall the area where the embankment is to be placed.
<u>ii.</u> vehicles.	Top Width. The minimum dike width shall be ten (10) feet to permit access for maintenance ()
iii. horizontal (1:3).	Maximum Slopes. Inner and outer dike slopes shall not be steeper than one (1) vertical to three (3)
iv. Flatter slopes carshallow areas bei	Minimum Slopes. Inner slopes should not be flatter than one (1) vertical to four (4) horizontal (1:4). n be specified for larger installations because of wave action but have the disadvantage of addeding conducive to emergent vegetation. Outer slopes shall be sufficient to prevent surface runoff from the sufficient
<u>v.</u> fifty thousand (50	Freeboard. Minimum freeboard shall be three (3) feet, except that for small systems of less than 0,000) gallons per day, two (2) feet may be acceptable.
vi. and damage to the pond depths be le	Design Depth. The minimum operating depth shall be sufficient to prevent growth of aquatic plants to dikes, bottom, control structures, aeration equipment, and other appurtenances. In no case shall ess than two (2) feet.
<u>b.</u>	Pond Bottom. ()
<u>i.</u> relatively incomp	Soil. Soil used in constructing the pond bottom (not including the seal) and dike cores shall be pressible and tight and compacted to at least ninety-five (95) percent Standard Proctor Density.
	Seal. Ponds shall be sealed such that seepage loss through the seal complies with Subsection f a testing program which substantiates the adequacy of the proposed seal must be incorporated into y the Preliminary Engineering Report.
<u>c.</u>	Miscellaneous. ()
i. and discourage tr	Fencing. The pond area shall be enclosed with an adequate fence to prevent entering of livestock espassing.
ii. maintenance of the	Access. An all-weather access road shall be provided to the pond site to allow year-round ne facility.
iii. designate the nate of the site and on	Warning Signs. Appropriate permanent signs shall be provided along the fence around the pond to ure of the facility and advise against trespassing. At least one (1) sign shall be provided on each side (1) for every five hundred (500) feet of its perimeter.
<u>iv.</u> Effective weather	Flow Measurement. Flow measurement requirements are provided in Subsection 450.06.e. r protection shall be provided for the recording equipment.
<u>v.</u>	Ground Water Monitoring. A ground water monitoring plan shall be submitted to the Department

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shall be required	pproval as a part of the Preliminary Engineering Report. An approved system of wells I around the perimeter of the pond site to facilitate ground water monitoring.	or lysimeters ()
	<u>Closure.</u> The owner shall notify the Department at least six (6) months prior to astewater lagoon facility from service, including any treatment or storage pond. Prior to s, the facility shall:	
<u>a.</u>	Participate in a pre-closure on-site meeting with the Department;	()
<u>b.</u> with scheduled t	Develop a site closure plan that identifies specific closure, site characterization, or ask completion dates in accordance with agreements made at the pre-site closure meeting	cleanup tasks ng; and ()
(45) days of the	Submit the completed site closure plan to the Department for review and approval wit pre-site closure meeting. The facility must complete the Department approved site closure	
<u>494 499.</u>	(RESERVED).	
500. FACIL DISPOSAL FA	LITY AND DESIGN STANDARDS FOR MUNICIPAL WASTEWATER TREAT CILITIES - DISINFECTION.	TMENT OR
disinfection pro provided prior application, cos Preliminary Eng proposed, suppo	General. Disinfection of the effluent shall be provided as necessary to meet applical consider meeting both the bacterial standards and the disinfectant residual limit in the cess shall be selected after due consideration of waste characteristics, type of treat to disinfection, waste flow rates, pH of waste, disinfectant demand rates, current of equipment and chemicals, power cost, and maintenance requirements as determined at the consideration of the constant of the consta	effluent. The ment process at technology mined in the disinfection is
for the design of	the system.	(<u>)</u>
for the design of 02.	<u>Determining the Necessity For Disinfection of Sewage Wastewater Treatment Plan</u>	()
		()
<u>02.</u>	Determining the Necessity For Disinfection of Sewage Wastewater Treatment Pla	()
<u>02.</u> a.	Determining the Necessity For Disinfection of Sewage Wastewater Treatment Plant Disinfection of sewage treatment plant effluent shall be required when:	()
02. a. i. ii. b.	Determining the Necessity For Disinfection of Sewage Wastewater Treatment Plant Disinfection of sewage treatment plant effluent shall be required when: Required by an NPDES permit; or	() ant Effluent. () () ()
02. a. i. ii. b.	Determining the Necessity For Disinfection of Sewage Wastewater Treatment Plant Disinfection of sewage treatment plant effluent shall be required when: Required by an NPDES permit; or The effluent is discharged to a land application/reuse facility. The need for disinfection of sewage wastewater treatment plant effluent where treatment effluent where treatment effluent where treatment effluent where treatment effluent effluent w	() ant Effluent. () () ()
02. a. i. ii. b. lagoons with at lagoons with	Determining the Necessity For Disinfection of Sewage Wastewater Treatment Plant Disinfection of sewage treatment plant effluent shall be required when: Required by an NPDES permit; or The effluent is discharged to a land application/reuse facility. The need for disinfection of sewage wastewater treatment plant effluent where treatment least thirty (30) day retention time shall be evaluated on a case by case basis.	ent consists of (

for the whole operating range of flow rates for the type of control to be used. System design considerations shall include the controlling wastewater flow meter (sensitivity and location), telemetering equipment, and chlorination controls.
e. Piping and Connections. Piping systems shall be as simple as practicable, specifically selected and manufactured to be suitable for chlorine service, with consideration for minimizing number of joints. Piping should be well supported and protected against temperature extremes. Venting of excess gas shall be provided. Special considerations shall be given to piping and fixture selection for hypochlorite and chlorine use. Section 008 provides a reference to guidance documents; see Subsections 008.01, 008.04 and 008.05.
d. Standby Equipment and Spare Parts. Standby equipment of sufficient capacity should be available to replace the largest unit during shutdowns. Spare parts shall be available for all disinfection equipment to replace parts which are subject to wear and breakage. ()
<u>e.</u> <u>Housing.</u> ()
i. Feed and Storage Rooms. Gas chlorination equipment and chlorine cylinders shall be housed in a building. If this building is used for other purposes, a gas-tight room shall separate this equipment from any other portion of the building. Floor drains from the chlorine room shall not be connected to floor drains from other rooms. Doors to this room shall open only to the outside of the building and shall be equipped with panic hardware. Rooms shall permit easy access to all equipment. Section 009 provides a reference to requirements of other regulatory entities, compliance with which may be required by other law.
ii. Ventilation. Section 009 provides a reference to the requirements of the National Electric Code, compliance with which may be required by other law.
iii. Electrical Controls. Section 009 provides a reference to the requirements of the National Electric Code, compliance with which may be required by other law.
iv. Protective and Respiratory Gear. Respiratory air-pac protection equipment shall be available where chlorine gas is handled, and shall be stored at a convenient location, but not inside any room where chlorine is used or stored. Instructions for using the equipment shall be posted. Section 008 provides a reference to guidance documents; see Subsections 008.01, 008.04 and 008.05.
04. <u>Dechlorination.</u> ()
<u>a.</u> <u>Types.</u> ()
i. Dechlorination of wastewater effluent may be necessary to reduce the toxicity due to chlorine residuals. The most common dechlorination chemicals are sulfur compounds, particularly sulfur dioxide gas or aqueous solutions of sulfite or bisulfite. Pellet dechlorination systems are also available for small facilities.
ii. The type of dechlorination system should be carefully selected considering criteria including the following: type of chemical storage required, amount of chemical needed, ease of operation, compatibility with existing equipment, and safety.
b. Dosage. The dosage of dechlorination chemical depends on the residual chlorine in the effluent, the final residual chlorine limit, and the particular form of the dechlorinating chemical used.
c. Standby Equipment and Spare Parts. The same requirements apply as for chlorination systems. See Subsection 500.04.d. ()
d. Housing Requirements/Feed and Storage Rooms. The requirements for housing SO2 gas equipment shall follow the same guidelines as used for chlorine gas. Refer to Section 500.04.e. for specific details. When using solutions of the dechlorinating compounds, the solutions may be stored in a room that meets the safety and handling requirements set forth in Section 450.07. The mixing, storage, and solution delivery areas must be

			()
		Protective and Respiratory Gear. The respiratory air-pac protection equipment is the same esection 500.04.e. (Refer to The Compressed Gas Association Publication CGA G-3-1995,	as for "Sulfur
Dioxide	<u>".)</u>		()
	<u>05.</u>	<u>Ultraviolet (UV) Radiation.</u>	<u>()</u>
facility of	<u>a.</u> design:	The following documents are recommended to be used as references for UV system sizi	ng and
	<u>i.</u>	"Wastewater Engineering, Treatment and Reuse," Metcalf and Eddy, referenced in Section C	<u>)008.</u> ()
<u>National</u>	<u>ii.</u> l Water R	For reuse applications, "Ultraviolet Disinfection Guidelines for Drinking Water and Water Flesearch Institute/AWWA Research Foundation, referenced in Section 008.	Reuse,"
facilities	larger th	For UV systems to be installed at any existing wastewater treatment facility, collection of a UV transmittance (UVT) data (four (4) times per day) prior to predesign is encouraged, especial an five million gallons per day (5 mgd) (design peak hourly flow), and facilities that have income throughout the year.	ally for
	<u>c.</u>	The Preliminary Engineering Report for all UV disinfection facilities shall include the following the Preliminary Engineering Report for all UV disinfection facilities shall include the following the Preliminary Engineering Report for all UV disinfection facilities shall include the following the Preliminary Engineering Report for all UV disinfection facilities shall include the following the Preliminary Engineering Report for all UV disinfection facilities shall include the following the Preliminary Engineering Report for all UV disinfection facilities shall include the following the Preliminary Engineering Report for all UV disinfection facilities shall include the following the Preliminary Engineering Report for all UV disinfection facilities shall include the following the Preliminary Engineering Report for all UV disinfection facilities shall include the following the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfection facilities and the Preliminary Engineering Report for all UV disinfec	wing:
	<u>i.</u>	A minimum of two (2) open channels (or justification for using a smaller system).	<u>()</u>
	<u>ii.</u>	A minimum of two (2) banks of UV lamps per channel (or justification for using a smaller sy	ystem).
	<u>iii.</u>	Description of the redundancy provided.	<u>()</u>
channels	<u>iv.</u> s).	Description of the upstream flow splitting device (which splits flow to the two (2) or mo	ore UV
	<u>V.</u>	Description of water level control device.	()
channel.	<u>vi.</u>	Description of method used to take a channel off-line for maintenance, and method to dev	water a
pressure	vii. , etc.), wi	Type of UV system technology (low-pressure low-intensity, low-pressure high-intensity, nith consideration given to power consumption.	nedium ()
	<u>viii.</u>	Summary of UVT data and/or collimated beam data.	<u>()</u>
summer	<u>ix.</u> peak tem	Description of HVAC system requirements to ensure adequate UV system performance period.	during ()
<u>channel</u>	<u>x.</u> walls ups	Description of maintenance requirements including removal (cleaning) of biofilms frostream and downstream of the UV system.	om the
	<u>xi.</u>	General description of alarming and controls.	<u>()</u>
	<u>xii.</u>	Description of procedure used for UV system sizing.	<u>()</u>
	<u>xiii.</u>	Design criteria:	()

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<u>(1)</u>	Design UVT.	()				
<u>(2)</u>	TSS.	()				
<u>(3)</u>	Design water temperature range.	()				
<u>(4)</u>	Dose.	()				
<u>(5)</u>	End of lamp life factor.	<u>()</u>				
<u>(6)</u>	Fouling factor.	<u>()</u>				
<u>(7)</u>	Quartz sleeve transmittance factor.	()				
<u>(8)</u>	Design peak hourly flow.	()				
<u>(9)</u>	Existing minimum flow.	()				
<u>(10)</u>	Number of channels.	()				
<u>(11)</u>	Disinfection requirements (coliform concentration).	()				
(12) spacing divided b	Maximum head-loss from upstream of the first bank to downstream by two (2)).	of the last bank of lamps (lamp				
conditions simila	Use of bioassay method of UV system sizing is encourage ve existing bioassays performed using identical protocol, and the ur to the design application. Use of the bioassay method of UV system of UV system of the bioassay method of UV system of UV sy	bioassay was performed under				
<u>e.</u> 450.03.b.	Closed chamber units will be reviewed on a case by case basis	in accordance with Subsection ()				
<u>501 509.</u>	(RESERVED).					
$\frac{510.}{DISPOSAL\ FACILITY\ AND\ DESIGN\ STANDARDS\ FOR\ MUNICIPAL\ WASTEWATER\ TREATMENT\ OR}{DISPOSAL\ FACILITIES\ -\ SUPPLEMENTAL\ TREATMENT\ PROCESSES.}$						
for each specific	Chemical Treatment. Many chemicals in various forms can be approval, pH adjustment, enhanced clarification, and sludge conditioning treatment process and must be compatible with other liquids, solistical as jar tests or pilot-scale studies on actual process wastewater shosage ranges.	ng. Chemicals must be evaluated ids and air treatment processes.				
precipitate from available, and the	Phosphorus removal. Chemical phosphorus removal from waste minum or iron) or lime to wastewater to form insoluble phospha the wastewater, and disposal of the precipitate with the settled slue designer shall select the chemical to insolubilize the phosphorus, es int of chemical addition.	te precipitates, removal of the adge. Many process options are				
are technically fe	Nitrogen Removal. Several chemical processes have been used for include breakpoint chlorination, selective ion exchange, and air strip easible ways of removing nitrogen, the Department does not anticipate oval, and justification to do so shall be demonstrated in the Preliminal	pping. Although these processes ate widespread use of chemicals				
<u>c.</u>	pH Adjustment. A common chemical process used in wastewater	er treatment is pH adjustment.				

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Several methods are available to neutralize or adjust low pH wastewater. The methods used shall be mixing acid wastes with lime slurries, or adding the proper amount of concentrated caustic soda (NaOH) or soda ash (Na2CO3) as determined in the Preliminary Engineering Report.

- d. Enhanced Primary Clarification. When settling aids are used during the primary clarification process to enhance solids removal in the primary treatment process, the additional solids volume shall be accounted for in pumping, solids handling, stabilization, and disposal processes. The coagulant shall be added and mixed before the sedimentation process. Floculants, if used, shall be added after the coagulant. The design shall provide for chemical addition points at several locations to give process personnel the opportunity to adjust for optimum performance.
- <u>02.</u> <u>Filtration for Tertiary Treatment</u>. Details for plants with tertiary treatment utilizing filtration shall be submitted and approved in the Preliminary Engineering Report.
- a. Membranes. In addition to requirements of Section 411, details shall include plant layout, calculations for hydraulic capacity and air required, membrane technology considered and membrane type and model selected, results from similar type filtration plants already in operation, and anticipated sludge production.
- **b.** Media. In addition to requirements of Section 411, details shall include plant layout, calculations for hydraulic capacity, media considered and media type selected, results from similar type filtration plants already in operation, and anticipated sludge production.
- c. Cloth. In addition to requirements of Section 411, details shall include plant layout, calculations for hydraulic capacity, technology considered and type and model selected, results from similar type filtration plants already in operation, and anticipated sludge production.
- <u>d.</u> Reverse Osmosis. In addition to requirements of Section 411, details shall include plant layout, calculations for hydraulic capacity required, technology considered and type and model selected, results from similar type filtration plants already in operation, and anticipated sludge production.

<u>511. -- 519.</u> (RESERVED).

520. FACILITY AND DESIGN STANDARDS FOR MUNICIPAL WASTEWATER TREATMENT OR DISPOSAL FACILITIES - HANDLING AND TREATMENT OF SEPTAGE AT A WASTEWATER TREATMENT PLANT.

- **Q1.** General. Septage disposal at a wastewater treatment plant is at the discretion of the owner of the wastewater treatment plant, unless other conditions apply. One method of septage disposal is the discharge to a municipal wastewater treatment plant. All plants require special design considerations prior to the acceptance of septage. Prior to acceptance of septage at a wastewater treatment plant, the plan for doing so must be addressed in the Facility Plan.
- O2. Characteristics. Tables No. 1 and No. 2 (Tables 3-4 and 3-8 from the U.S. EPA Handbook entitled "Septage Treatment and Disposal" 1984, EPA-625/6-84-009) give a comparison of some of the common parameters for septage and municipal wastewater. These tables are located at the end of Appendix A-3 of the Recommended Standards for Wastewater Facilities. See Section 008 of these rules.
- O3. Considerations. It is essential that an adequate engineering evaluation of the existing plant and the anticipated septage loading be conducted prior to receiving septage at the plant. The wastewater treatment plant owner shall be contacted to obtain the appropriate approvals prior to the acceptance of septage. For proposed plant expansion and upgrading, the Preliminary Engineering Report and Facility Plan shall include anticipated septage loading in addressing treatment plant sizing and process selection.

<u>521. -- 599.</u> (RESERVED).

600. LAND APPLICATION OF WASTEWATER(S) OR RECHARGE WATERS.

Land application of wastewater or recharge waters is subject to the following requirements:

(4-11-06)

- **01.** Land Application/Reuse Permit. Idaho Department of Environmental Quality Rules, IDAPA 58.01.17, "Wastewater Land Application Permit Rules for the Reclamation and Reuse of Municipal and Industrial Wastewater," require a permit prior to land application/reuse of certain types of wastewater.

 (4-11-06)(_____)
- **02. Applied Waters Restricted to Premises.** Wastewater(s) or recharge waters applied to the land surface must be restricted to the premises of the application site. Wastewater discharges to surface water that require a permit under the Clean Water Act must be authorized by the U.S. Environmental Protection Agency. (4-11-06)
- **03. Hazard or Nuisance Prohibited**. Wastewaters must not create a public health hazard or a nuisance condition. (4-11-06)
- **04. Monitoring.** Provision must be made for monitoring the quality of the ground water in proximity of the application site. The ground water monitoring program is subject to approval by the Department. All data and reports resulting from the ground water monitoring program must be submitted to the Department upon request. The minimum frequency of monitoring and data submittal will be determined by the Department and in general will be dependent upon:

 (4-11-06)
 - **a.** The nature and volume of wastewater material or recharge water; (4-11-06)
 - **b.** The frequency and duration of application; and (4-11-06)
 - **c.** The characteristics of the soil mantle on and lithology underlying the application site. (4-11-06)
- **05. Basis for Evaluation**. The evaluation for an approval to irrigate, either by sprinkling or flooding or surface spreading of wastewater material or by burying wastewater material or recharge water in the upper soil horizon as a method of treatment, must include, but will not necessarily be limited to, consideration of the following items:

 (4-11-06)
- **a.** The type and quantity of wastewater(s) proposed for land application. In general, the wastewater(s) organic constituents are to be biologically degradable and inorganic constituents must be utilized by vegetation or those organisms normally present in the soil. Other wastewater(s) or recharge waters will be considered provided it can be shown that land application will not adversely affect beneficial uses of waters of the state. (4-11-06)
- **b.** The nature of the soils and geologic formations underlying the application site. The entity proposing the activity must provide reasonable assurance that the soils and site geology will provide the required level of treatment and will not allow movement of pollutants into the underlying ground water. (4-11-06)
- **c.** The ability of the soil and vegetative cover on the application site to remove the pollutants contained in the applied waters through the combined processes of consumptive use and biological and chemical inactivation. (4-11-06)

601. -- 649. (RESERVED).

650. SLUDGE USAGE.

- **Disposal Plans Required**. Sludge can be utilized as soil augmentation only in conformance with: (4-11-06)
- **a.** A Department approved sludge disposal plan; or (4-11-06)
- **b.** Procedures and in a manner approved by the Department on a site-by-site basis. (4-11-06)
- **O2. Basis for Evaluation**. Sludge disposal plans and sludge utilization proposals will be evaluated by the Department in regard to their protection of water quality and public health. (4-11-06)
 - **O3.** Elements of Plans and Proposals. Plans and proposals must at a minimum provide: (4-11-06)

DEPARTMEN Wastewater F	Docket No. 58-0116-0502 Proposed Rulemaking	
a.	That only stabilized sludge will be used.	(4-11-06)
b.	The criteria utilized for site selection, including:	(4-11-06)
i.	Soil description;	(4-11-06)
ii.	Geological features;	(4-11-06)
iii.	Groundwater characteristics;	(4-11-06)
iv.	Surrounding land use;	(4-11-06)
v.	Topography; and	(4-11-06)
vi.	Climate.	(4-11-06)
c.	A description of the application process.	(4-11-06)
d. productivity or	A statement detailing procedures to prevent application which count the percolation of excess nutrients.	ald result in a reduction of soil (4-11-06)
е.	Identification of potential adverse health effects in regard to the slud	dge and its proposed use. (4-11-06)
f.	Delineation of methods or procedures to be used to alleviate or elim	ninate adverse health effects. (4-11-06)
04. for the Use or D	Reference to Federal Regulations. See Code of Federal Regulation is posal of Sewage Sludge.	ns, 40 CFR, Part 503, Standards

IDAPA 58 - DEPARTMENT OF ENVIRONMENTAL QUALITY

58.01.17 - RULES FOR THE RECLAMATION AND REUSE OF MUNICIPAL AND INDUSTRIAL WASTEWATER

DOCKET NO. 58-0117-0601

NOTICE OF RULEMAKING - PROPOSED RULE

AUTHORITY: In compliance with Section 67-5221(1), Idaho Code, notice is hereby given that this agency has proposed rulemaking. This action is authorized by Title 39, Chapter 1, Idaho Code.

PUBLIC HEARING SCHEDULE: No hearings have been scheduled. Pursuant to Section 67-5222(2), Idaho Code, a public hearing will be held if requested in writing by twenty-five (25) persons, a political subdivision, or an agency. Written requests for a hearing must be received by the undersigned on or before August 16, 2006. If no such written request is received, a public hearing will not be held.

DESCRIPTIVE SUMMARY: The Department of Environmental Quality (DEQ) has initiated this rulemaking to address the following issues:

- 1. Add the ability for DEQ to issue some permits for up to 5 years without a complete application package or staff analysis. This would be for permits where little change is needed in the existing permit and application content from the previous permit application is already available. Summary information for the last permit cycle and anticipated impacts would still be necessary.
- 2. Add more extensive disinfection requirements for Class A effluent, including concentration/contact time (CT) requirements for chlorine disinfection and other requirements for Class A UV disinfection. This is to control virus levels in the effluent.
- 3. Add other uses for Class A effluent including subsurface distribution for groundwater recharge, fire suppression, dust suppression, and commercial toilet flushing. Use only for commercial toilet flushing could allow for lower levels of treatment if the engineering report showed proof of protection of public health.
 - 4. Add requirements for mixing Class A effluent with other irrigation waters.
 - 5. Change the effluent turbidity limit for membrane filters from 2 NTU to 0.2 NTU.
 - 6. Add Class A granular media filter loading limits up to 5 gpm/ft2.
 - 7. Add clarification for peak flow meaning peak day flow.
 - 8. Add clarification for reliability and redundancy.

The proposed rule text is in legislative format. Language the agency proposes to add is underlined. Language the agency proposes to delete is struck out. It is these additions and deletions to which public comment should be addressed. Idaho Association of Commerce and Industry, Idaho Association of Cities, consulting engineers, existing and potential permittees, and the development community may be interested in participating in this rulemaking.

After consideration of public comments, DEQ intends to present the final proposal to the Board of Environmental Quality in November 2006 for adoption of a pending and temporary rule. If adopted by the Board, the temporary rule will become effective on November 17, 2006. The pending rule is expected to be final upon the adjournment of the 2007 legislative session if approved by the Legislature.

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state general fund greater than ten thousand dollars (\$10,000) during the fiscal year: N/A

IDAHO CODE SECTION 39-107D STATEMENT: Section 39-107D, Idaho Code, provides that DEQ must meet certain requirements when it formulates and recommends rules which are broader in scope or more stringent than federal law or regulations. There is no federal law or regulation that is comparable to the Rules for Reclamation and Reuse of Municipal and Industrial Wastewater. Therefore, the proposed changes to the rule are not broader in scope or more stringent than federal law or regulations.

Section 39-107D, Idaho Code, also applies to a rule which "proposes to regulate an activity not regulated by the federal government".

This rule does regulate an activity not regulated by the federal government. The following is a summary of additional information required by Sections 39-107D(3) and (4), Idaho Code. Information relating to Section 39-107D(2) has also been provided. The requirements set forth in this proposed rule are based upon best available peer reviewed

science and studies and analyses conducted by other states, the U.S. Environmental Protection Agency (EPA), and national water reuse organizations that indicate the requirements are protective of human health and the environment and do not pose an unreasonable risk to the public potentially exposed. The referenced studies and analyses will be included in the rulemaking record and can be reviewed during the public comment period for further detailed information regarding risk.

Section 39-107D(2)(a), Idaho Code. To the degree that a department action is based on science the department shall utilize the best available peer reviewed science and supporting studies conducted in accordance with sound objective scientific practices.

The proposed filtration/chorine disinfection process Class A requirements relating to virus reduction have been shown in studies supporting The State of California Department of Health Services Treatment Technology Report for Recycled Water (Treatment Technology Report for Recycled Water), http://www.dhs.ca.gov/ps/ddwem/publications/waterrecycling/treatmenttechnology.pdf, to achieve a five (5)-log reduction in virus. There have been numerous Ultra-Violet (UV) process studies by manufacturers that show that they can also meet this five (5)-log reduction in virus. The actual five (5)-log reduction in virus level now stated in the rule is the accepted norm throughout the reuse industry in the United States for Class A levels of reuse. The requirements set forth in this proposed rule are based upon best available peer reviewed science and studies and analyses conducted by other states, EPA, and national water reuse organizations that indicate the requirements are protective of human health and the environment and do not pose an unreasonable risk to the public potentially exposed. The referenced studies and analyses will be included in the rulemaking record and can be reviewed during the public comment period for further detailed information regarding risk.

Section 39-107D(2)(b), Idaho Code. To the degree that a department action is based on science the department shall utilize data collected by accepted methods or best available methods if the reliability of the method and the nature of the decision justifies use of the data.

Data were not collected or analyzed by DEQ as part of this rulemaking process. DEQ relied on information readily available to the public from federal and state government publications and articles from scientific professional journals.

Section 39-107D(3)(a), Idaho Code. Identification of each population or receptor addressed by an estimate of public health effects or environmental effects.

The limits placed on wastewater treatment in the stated modifications are proposed for both public health and environmental effects. The population affected by these limits includes the residents and users of facilities being irrigated by this wastewater effluent and the potential users of down-gradient beneficial uses of groundwater being recharged by this wastewater effluent.

Section 39-107D(3)(b) and (c), Idaho Code. Identification of the expected risk or central estimate of risk for the specific population or receptor and identification of each appropriate upper bound or lower bound estimate of risk.

The expected risk of exposure to this quality of wastewater effluent for each of these populations is as follows.

The expected risk for nitrate contamination on ground water is low. For nitrate from the wastewater effluent entering the ground water and affecting down-gradient beneficial users for drinking water (either directly or indirectly), the limits are based on IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems," and IDAPA 58.01.11, "Ground Water Quality Rule." These standards are based on past studies by EPA determining the adverse health effects on infants from nitrate in drinking water.

The expected risk for pathogen contamination for affected populations is low. For pathogens in the wastewater effluent, the coliform limits are based on IDAPA 58.01.17, "Rules for the Reclamation and Reuse of Municipal and Industrial Wastewater." For virus contamination using Class A wastewater, the expected risk is low. The proposed rules include additional disinfection requirements that are meant to lower virus levels such that the Class A effluent can be handled by workers and homeowners with minimal risk. Associated additional requirements regarding treatment, buffer zones, reliability and redundancy are included to give additional assurance that the limits are attained consistently.

The expected risk of cross-connections from the wastewater effluent distribution system to the drinking water distribution system is low. There are multiple requirements put on the distribution system of the wastewater effluent.

These requirements provide the affected populations with safeguards against contamination of their drinking water system from parallel or crossing main lines. These requirements also protect against contamination of their wastewater effluent system by raw sewage in parallel or crossing main lines.

Section 39-107D(3)(d), Idaho Code. Identification of each significant uncertainty identified in the process of the assessment of public health effects or environmental effects and any studies that would assist in resolving the uncertainty.

The limits placed on wastewater treatment in the stated modifications are proposed for both public health and environmental effects. The limits in these rule modifications are based on limits and standards used by other states and as promoted by national water reuse organizations. Although Idaho's wastewater land application permit program has been in affect for many years utilizing treated effluent for agricultural and municipal beneficial irrigation, the use of highly treated wastewater for higher beneficial uses is an evolving industry throughout the United States and the world. These higher uses, involving almost unrestricted use and unrestricted access by the general public, call for higher treatment and monitoring requirements to protect the affected populations. The uncertainty in assessing the health and environmental effects is believed to be minimal, but not zero.

Section 39-107D(3)(e), Idaho Code. Identification of studies known to the department that support, are directly relevant to, or fail to support any estimate of public health effects or environmental effects and the methodology used to reconcile inconsistencies in the data.

The use of the 10 mg/l for nitrate is based on the existing Ground Water Quality Rule and the existing Idaho Rules for Public Drinking Water Systems. The use of the 2.2 total coliform limit is currently in the Rules for the Reclamation and Reuse of Municipal and Industrial Wastewater. The proposed filtration/chorine disinfection process Class A requirements relating to virus reduction have been shown in studies supporting the Treatment Technology Report for Recycled Water to achieve a five (5)-log reduction in virus. There have been numerous ultra-violet (UV) process studies by manufacturers that show that they can also meet this five (5)-log reduction in virus. The actual five (5)-log reduction in virus level now stated in the rule is the accepted norm throughout the reuse industry in the United States for Class A levels of Reuse.

NEGOTIATED RULEMAKING: The text of the proposed rule has been drafted based on discussions held and concerns raised during negotiations conducted pursuant to Idaho Code Section 67-5220 and IDAPA 04.11.01.812-815. The Notice of Negotiated Rulemaking was published in the Idaho Administrative Bulletin, April 5, 2006, Vol. 06-4, page 105.

GENERAL INFORMATION: For more information about DEQ's programs and activities, visit DEQ's web site at www.deq.idaho.gov.

ASSISTANCE ON TECHNICAL QUESTIONS AND SUBMISSION OF WRITTEN COMMENTS: For assistance on questions concerning this rulemaking, contact Mark Mason, mark.mason@deq.idaho.gov, (208) 373-0266.

Anyone may submit written comments on the proposed rule by mail, fax or e-mail at the address below. DEQ will consider all written comments received by the undersigned on or before August 30, 2006.

Dated this 30th day of June, 2006.

Paula J. Wilson Hearing Coordinator Department of Environmental Quality 1410 N. Hilton Boise, Idaho 83706-1255 (208)373-0418 Fax No. (208)373-0481 Paula.Wilson@deq.idaho.gov

THE FOLLOWING IS THE TEXT OF DOCKET NO. 58-0117-0601

003. INCORPORATION BY REFERENCE.

- **01. General.** Unless expressly provided otherwise, any reference in these rules to any document identified in Subsection 003.02 shall constitute the full adoption by reference. (4-6-05)
- **O2. Documents Incorporated by Reference**. The following documents are incorporated by reference into these rules: (4-6-05)
- **a.** IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems," Subsection 550.06 542, as codified in the 20057 Idaho Administrative Code.
- **b.** IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems," Subsection 550.06 543, as codified in the 20057 Idaho Administrative Code.
- **03. Availability of Documents Incorporated by Reference**. Copies of the documents incorporated by reference are available at the following locations. (4-6-05)
- **a.** Idaho Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255, www.deq.idaho.gov. (4-11-06)
 - **b.** Idaho Administrative Rules website, http://www.state.id.us/adm/adminrules/agyindex.htm. (4-6-05)

(BREAK IN CONTINUITY OF SECTIONS)

008. <u>REFERENCED MATERIALS.</u>

- 01. Idaho Guidance for the Reclamation and Reuse of Municipal and Industrial Wastewater. This document, and subsequent revisions of this document, provides assistance in applying and interpreting these rules relating to permitting and operations of reclamation and reuse facilities. Copies of the document are available at the Idaho Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255, http://www.deq.idaho.gov/water/permits forms/permitting/guidance.cfm.
- 02. Idaho Wastewater Rules, IDAPA 58.01.16. The Idaho Wastewater Rules are available at http://adm.idaho.gov/adminrules/rules/idapa58/0116.pdf.
- <u>03.</u> <u>Treatment Technology Report for Recycled Water.</u> The State of California Department of Health Services Treatment Technology Report for Recycled Water, http://www.dhs.ca.gov/ps/ddwem/publications/waterrecycling/treatmenttechnology.pdf. ()

(BREAK IN CONTINUITY OF SECTIONS)

200. DEFINITIONS.

For the purpose of these rules the following definitions apply unless another meaning is clearly indicated by context: (4-1-88)

01. Applicant. The person applying for a reclamation and reuse permit. (4-11-06)

- **02. Applicable Requirements**. Any state, local or federal statutes, regulations or ordinances to which the facility is subject. (4-1-88)
 - **O3.** Board. The Idaho State Board of Environmental Quality. (12-31-91)
 - **04. Buffer Distances**. (4-11-06)
- **a.** The distances between the actual point of reuse of reclaimed wastewater and other uses such as wells, adjoining property, inhabited dwellings, and other features. Buffer distances are set to: (4-11-06)
- i. Protect public health by limiting exposure to wastewater and conditions associated with reuse facilities; (4-11-06)
 - ii. Protect waters of the state, including surface water, ground water and drinking water supplies; and (4-11-06)
 - iii. Help ensure that wastewater is restricted to the reuse facilities. (4-11-06)
- b. In determining buffer distances, the Department will consider, as applicable, the degree of treatment or pretreatment of wastewater; the method of irrigation; physical or vegetative barriers; studies of the content of the wastewater, such as pathogen studies; best management practices; environmental conditions, such as wind speed and direction; and other information relevant to protecting public health and the environment. Further information regarding buffer distances is set forth in The Idaho Guidance for The Reclamation and Reuse of Municipal and Industrial Wastewater. (4-11-06)
- **05.** Class A Capacity. The capabilities required of a Class A effluent treatment and distribution system in order to achieve and maintain compliance with these rules. (4-6-05)
- **06.** Class A Effluent Distribution System. The distribution system for Class A effluent as described in these rules. The distribution system does not include any of the collection or treatment portions of the wastewater facility and is not subject to operator licensing requirements of IDAPA 58.01.16, "Wastewater Rules". (4-11-06)
 - **07. Department.** The Idaho Department of Environmental Quality. (4-1-88)
 - **O8. Director**. The Director of the Department of Environmental Quality or the Director's designee. (4-1-88)
- **09. Idaho Guidance for the Reclamation and Reuse of Municipal and Industrial Wastewater.** This document, and subsequent revisions of this document, provides assistance in applying and interpreting these rules relating to for permitting and operating reclamation and reuse facilities. Copies of the document are available at the Idaho Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255 and www.deq.idaho.gov.
 - (4-11-06)
- **10. Industrial Wastewater**. Wastewater that is the by-product of any industrial processes including, but not limited to, food processing or food washing wastewater. (4-11-06)
- 11. Land Application. The application of municipal or industrial wastewater to land for the purpose of land treatment. (4-11-06)
- **12. Land Treatment**. The use of land, soil, and crops for treatment of municipal or industrial wastewater. (4-11-06)
- 13. Modal Contact Time. The amount of time elapsed between the time that a tracer, such as salt or dye, is injected into the influent at the entrance to a chamber and the time that the highest concentration of the tracer is observed in the effluent from the chamber.
 - **134. Municipal Wastewater**. Waste water that contains sewage. (4-1-88)

- **145. New Activity.** Any significant change in operation or construction of the wastewater treatment system which may impact the waters of the state. (4-1-88)
- 156. Non-Contact Cooling Water. Water used to reduce temperature which does not come into direct contact with any raw material, intermediate product, waste product (other than heat) or finished product. (4-1-88)
- 167. NTU: (Nephelometric Turbidity Unit). a unit of measurement of the level of turbidity. A measure of turbidity based on a comparison of the intensity of the light scattered by the sample under defined conditions with the intensity of the light scattered by a standard reference suspension under the same conditions.

 (4-6-05)(_____)
- 178. **Permit**. Written authorization by the Director to modify, operate, construct or discharge to a reclamation and reuse facility. (4-11-06)
 - **1899. Permittee.** The person to whom the reclamation and reuse permit is issued. (4-11-06)
- **1920. Person.** An individual, corporation, partnership, association, state, municipality, commission, political subdivision of the state, state agency, federal agency, special district, or interstate body. (4-1-88)
- **201. Point of Compliance.** That point in the reclamation and reuse facility where the reclaimed wastewater must meet the requirements of the permit. There may be more than one (1) point of compliance within the facility depending on the constituents to be monitored. (4-11-06)
- **242. Primary Effluent.** Raw wastewater that has been mechanically treated by screening, degritting, sedimentation and/or skimming processes to remove substantially all floatable and settleable solids. (4-1-88)
- **223. Processed Food Crop.** Any crop intended for human consumption that has been changed from its original form and further disinfection occurs. (4-1-88)
- **234. Rapid Infiltration System.** A wastewater treatment method by which wastewater is applied to land in an amount of twenty (20) to six hundred (600) feet per year for percolation through the soil. Vegetation is not generally utilized by this method. (4-1-88)
- form. Raw Food Crop. Any crop intended for human consumption which is to be used in its original (4-1-88)
- **256. Reclaimed Wastewater**. For the purpose of these rules, the term reclaimed wastewater shall mean wastewater that is used in accordance with these rules. (4-11-06)
- **267. Restricted Public Access.** Preventing public entry within the area or point of reuse of a facility and the buffer distance around the area by site location or physical structures such as fencing. A lesser buffer distance may be accepted if aerosol drift is reduced. (4-11-06)
- **278. Reclamation**. The treatment of municipal or industrial wastewater that allows it to be reused for beneficial uses. Reclamation also includes land treatment for wastewater that utilizes soil or crops for partial treatment. (4-11-06)
- **282. Reuse.** The use of reclaimed wastewater for beneficial uses including, but not limited to, land treatment, irrigation, aquifer recharge, use in surface water features, toilet flushing in commercial buildings, dust control, and other uses. (4-11-06)
- **2930. Reclamation and Reuse Facility or Facility.** Any structure or system designed or used for reclamation or reuse of municipal or industrial wastewater including, but not limited to, industrial and municipal wastewater treatment facilities, pumping and storage facilities, pipeline and distribution facilities, and the property to which the reclaimed wastewater is applied. This does not include industrial in-plant processes and reuse of process waters within the plant. (4-11-06)

- **301. Sewage**. The water-carried human wastes from residences, buildings, industrial establishments and other places. (4-1-88)
 - 342. Sludge. The semi-liquid mass produced by treatment of water or wastewater. (4-1-88)
- **323. Time Distribution of Flows.** A measurement of the volume of wastewater distributed over a specified area during a specified time period. Typical unit of measure is inches per acre per week. (4-1-88)
- 34. Turbidity. A measure of the interference of light passage through water, or visual depth restriction due to the presence of suspended matter such as clay, silt, nonliving organic particulates, plankton and other microscopic organisms. Operationally, turbidity measurements are expressions of certain light scattering and absorbing properties of a water sample. Turbidity is measured by the Nephelometric method.
- **335. Wastewater.** Unless otherwise specified, industrial waste, municipal waste, agricultural waste, and associated solids or combinations of these, whether treated or untreated, together with such water as is present but not including sludge, or non-contact cooling water. (4-1-88)
- **346. Waters and Waters of the State**. All the accumulations of water, surface and underground, natural and artificial, public and private, or parts thereof which are wholly or partially within, which flow through or border upon the state. (4-1-88)

201. -- 299. (RESERVED).

300. PERMIT REQUIREMENTS AND APPLICATION.

- **01. Permit Required.** No person shall construct, modify, operate, or continue to operate a reclamation and reuse facility without a valid permit issued by the Director as provided in these rules. (4-11-06)
- **02. Dischargers.** No person shall discharge to a reclamation and reuse facility without a valid permit issued by the Director as provided in these rules. (4-11-06)
- **03. Pre-Application Conference**. Prospective applicants are encouraged to meet with the Department to discuss application procedure and anticipated application requirements. (4-1-88)
- **04. Application Required**. Every person requiring a permit under these rules shall submit a permit application to the Department: (4-1-88)
 - **a.** At least one hundred eighty (180) days prior to the day on which a new activity is to begin; or (4-11-06)
- **b.** At least one hundred eighty (180) days prior to the expiration of any permit issued pursuant to these rules. (4-11-06)
- **05. Application Contents.** Application shall be made on a form prescribed by the Director and available from the Department, and Except as provided in Subsection 300.05.l., the application shall include, but not be limited to, the following information:

 (4-1-88)(
 - a. Name, location, and mailing address of the facility; (4-1-88)
- **b.** Name, mailing address, and phone number of the facility owner and signature of the owner or authorized agent; (4-1-88)
 - c. The nature of the entity owning the facility (federal, state, private, or public entity); (4-1-88)
- **d.** A list of local, state, and federal permits, licenses and approvals related to the activity which have been applied for and which have been received and the dates of application or approval; (4-1-88)

- e. A topographic map of the facility site identifying and showing the location and extent of: (4-1-88) i. Wastewater inlets, outlets, and storage structures and facilities; (4-1-88)ii. Wells, springs, wetlands, and surface waters; (4-1-88)iii. Twenty-five (25), fifty (50), and one hundred (100) year flood plains, as available through the Federal Insurance Administration of the Federal Emergency Management Agency; (4-1-88)iv. Service roads; (4-1-88)v. Natural or man-made features necessary for treatment; (4-1-88)vi. Buildings and structures; and (4-1-88)vii. Process chemicals and residue storage facilities. (4-1-88)A topographic map which may be separate from or combined with the facility site map, extending one quarter (1/4) mile beyond the outer limits of the facility site. The map shall identify and show the location and extent of the following: (4-1-88)i. Wells, springs, wetlands, and surface waters; (4-6-05)Public and private drinking water supply sources and source water assessment areas (public water ii. system protection area information); (4-6-05)iii. Public roads; and (4-1-88)Dwellings and private and public gathering places. iv. (4-1-88)If the facility site or any portion thereof is leased or rented, a copy of that lease or rental agreement; g. (4-1-88)h. The volume of wastewaters to be treated and the time distribution of flows; (4-1-88)i. The physical, chemical, and biological characteristics of the wastewater; (4-1-88)j. The climatic, hydrogeologic, and soil characteristics of the facility site. (4-1-88)Other information may also be required. The Idaho Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater is intended to provide assistance to permit applicants in obtaining a reclamation
- will be clarified at the pre-application conference.

 (______) **06.** Existing Reclamation and Reuse Facility Plan of Operation. Any existing reclamation and reuse facility shall be required to have a plan of operation which describes in detail the operation, maintenance, and management of the wastewater treatment system.

 (4-11-06)

300.05.a. through k. may not be necessary for evaluation and will not be required. Application content requirements

Under certain circumstances for permit reissuances, some information required in Subsections

and reuse permit and may be considered in determining the need for other information.

07. New Reclamation and Reuse Facility Plan of Operation. Any new proposed reclamation and reuse facility shall be required to have a detailed plan of operation at the fifty percent (50%) completion point of construction. In addition, after one (1) year of operation the plan must be updated to reflect actual operating procedures. A general outline of the plan of operation must be provided with the permit application which will satisfy the intent of these rules. (4-11-06)

(4-11-06)

(BREAK IN CONTINUITY OF SECTIONS)

600. SPECIFIC PERMIT CONDITIONS.

- **01. Basis for Specific Permit Conditions.** Conditions necessary for the protection of the environment and the public health may differ from facility to facility because of varying environmental conditions and wastewater compositions. The Director may establish, on a case-by-case basis, specific permit conditions. Specific conditions shall be established in consideration of characteristics specific to a facility and inherent hazards of those characteristics. Such characteristics include, but are not limited to:

 (4-1-88)
 - **a.** Chemical, biological, physical, and volumetric characteristics of the wastewater; (4-1-88)
 - **b.** Geological and climatic nature of the facility site; (4-1-88)
 - c. Size of the site and its proximity to population centers and to ground and surface water; (4-1-88)
 - **d.** Legal considerations relative to land use and water rights; (4-1-88)
- **e.** Techniques used in wastewater distribution and the disposition of that vegetation exposed to wastewaters; (4-1-88)
- **f.** Abilities of the soils and vegetative covers to treat the wastewater without undue hazard to the environment or to the public health; and (4-1-88)
- g. The need for monitoring and record keeping to determine if the facility is being operated in conformance with its design and if its design is adequate to protect the environment and the public health. (4-1-88)
 - **O2. Duration of Permit.** The permit shall be effective for a fixed term of not more than five (5) years. (4-1-88)
 - **03. Limitations to Operation**. Conditions of the permit may specify or limit: (4-1-88)
 - a. Wastewater composition; (4-1-88)
 - **b.** Method, manner, and frequency of wastewater treatment; (4-1-88)
 - c. Wastewater pretreatment requirements; (4-1-88)
 - **d.** Physical, chemical, and biological characteristics of a land treatment facility; and (4-11-06)
 - e. Any other condition the Director finds necessary to protect public health or environment. (4-1-88)
- **04. Compliance Schedules**. The Director may establish a compliance schedule for existing facilities as part of the permit conditions including: (4-1-88)
- **a.** Specific steps or actions to be taken by the permittee to achieve compliance with applicable requirements or final permit conditions; (4-1-88)
 - **b.** Dates by which those steps or actions are to be taken; and (4-1-88)
- **c.** In any case where the period of time for compliance exceeds one (1) year the schedule may also establish interim requirements and the dates for their achievements. (4-1-88)

- **05. Monitoring Requirements**. Any facility may be subject to monitoring requirements including, but not limited to: (4-1-88)
 - **a.** The installation, use, and maintenance of monitoring equipment; (4-1-88)
 - **b.** Monitoring or sampling methodology, frequency, and locations; (4-1-88)
 - c. Monitored substances or parameters; (4-1-88)
 - **d.** Testing and analytical procedures; and (4-1-88)
 - e. Reporting requirements including both frequency and form. (4-1-88)
- **806. Rapid Infiltration Systems.** The following minimum treatment requirements are established for land application of wastewater using rapid infiltration methods and systems. (4-11-06)
- **a.** Suspended solids content of wastewater which includes organic and inorganic particulate matter shall not exceed a thirty (30) day average concentration of one hundred (100) mg/l. (4-1-88)
- **b.** Nitrogen (total as N) content of wastewater shall not exceed a thirty (30) day average concentration of twenty (20) mg/l. (4-1-88)
- **O7. Direct Use of Municipal Reclaimed Wastewater.** Treatment requirements for reuse facilities applicable to direct use of municipal reclaimed wastewater include, but are not limited to, the following. The applicable treatment requirements, buffer zones, access restrictions, disinfection requirements, uses, and other requirements are further described in the Classification Table in Subsection 600.08.

 (4-6-05)(____)
- Class A effluent is municipal reclaimed wastewater that may be used under particular circumstances for irrigation, including residential irrigation at individual homes; ground water recharge using surface spreading, seepage ponds, or other unlined surface water features; and ground water recharge using subsurface distribution; fire suppression from dedicated, marked hydrants and only by trained fire personnel, and not to be used in building sprinkler systems; dust suppression at construction sites; toilet flushing at industrial and commercial sites where only trained maintenance personnel have access to the plumbing for repair; or other uses acceptable to the Department. Class A effluent shall be oxidized, coagulated, clarified, and filtered, or treated by an equivalent process and adequately disinfected. Filtration approval requirements, nutrient removal requirements, turbidity limits requirements, monitoring requirements, reliability and redundancy requirements, and distribution system requirements also apply. Class A treatment systems are required to be pilot tested or otherwise approved by the Department per Subsection 601.04 of these rules. Class A effluent shall be considered adequately disinfected if, at the point of compliance, the median number of total coliform organisms does not exceed two and two-tenths (2.2) per one hundred (100) milliliters, and does not exceed twenty-three (23) per one hundred (100) milliliters in any confirmed sample, as determined from the bacteriological results of the last seven (7) days for which analyses have been completed. For ground water recharge using surface spreading, seepage ponds, and other unlined surface water features, IDAPA 58.01.11, "Ground Water Quality Rule," requirements apply. For Class A effluent, analysis shall be based on daily sampling during periods of use. The point of compliance for Class A effluent for total coliform shall be at any point in the system following final treatment and disinfection contact time. It is recommended but not required that the effluent also be disinfected following storage. Class A effluent for residential irrigation shall be applied only during periods of non-use. (4-11-06)(
- crops: or is may be used to irrigate golf courses, parks, playgrounds, schoolyards and other areas where children are more likely to have access or exposure; or may be used for toilet flushing at industrial and commercial sites where only trained maintenance personnel have access to the plumbing for repair. Class B effluent shall be oxidized, coagulated, clarified, and filtered, or treated by an equivalent process and adequately disinfected. New Class B treatment systems are required to be pilot tested and approved by the Department prior to start-up. Class B effluent shall meet the following turbidity limits. The daily arithmetic mean of all daily measurements of turbidity shall not exceed two (2) NTU, and turbidity shall not exceed five (5) NTU at any time. Turbidity shall be measured continuously. The turbidity standard shall be met prior to disinfection. For those systems that have in-line

turbidimeters that are operating full-time, no additional monitoring for total suspended solids (TSS) is required. Class B effluent shall be considered adequately disinfected if, at the point of compliance, the median number of total coliform organisms does not exceed two and two-tenths (2.2) per one hundred (100) milliliters, and does not exceed twenty-three (23) per one hundred (100) milliliters in any confirmed sample, as determined from the bacteriological results of the last seven (7) days for which analyses have been completed. For Class B effluent, analysis shall be based on daily sampling during periods of application. The point of compliance for Class B effluent for total coliform shall be at any point in the system following final treatment and disinfection contact time. It is recommended but not required that the effluent also be disinfected following storage. Residual chlorine at the point of compliance shall be not less than one (1) mg/L free chlorine after a contact time of thirty (30) minutes at peak flow. If an alternative disinfection process is used, it must be demonstrated to the satisfaction of the Department that the alternative process is comparable to that achieved by chlorination with one (1) mg/L free chlorine after thirty (30) minutes contact time. Class B effluent shall be applied only during periods of non-use by the public.

- c. Class C effluent is municipal reclaimed wastewater that will may only contact the inedible portion of raw food crops; or is may be used to irrigate orchards and vineyards during the fruiting season, if no fruit harvested for raw use comes in contact with the irrigation water or ground or will only contact the inedible portion of raw food crops; or is may be used to irrigate cemeteries, vegetation on sides and medians of highways, and other areas where individuals have access or exposure; or may be used for toilet flushing at industrial and commercial sites where only trained maintenance personnel have access to the plumbing for repair. Class C effluent shall be oxidized and adequately disinfected. Class C effluent shall be considered adequately disinfected if, at the point of compliance, the median number of total coliform organisms does not exceed twenty-three (23) per one hundred (100) milliliters, and does not exceed two hundred thirty (230) per one hundred (100) milliliters in any confirmed sample as determined from the bacteriological results of the last five (5) days for which analyses have been completed. For Class C effluent, analysis shall be based on weekly sampling during periods of application. The point of compliance for Class C effluent for total coliform shall be at any point in the system following final treatment and disinfection contact time. Class C effluent shall be applied only during periods of non-use by the public.
- d. Class D effluent is municipal reclaimed wastewater that is used to irrigate fodder, seed, or processed food crops and is oxidized and adequately disinfected. Class D effluent shall be considered adequately disinfected if, at some location in the treatment process, the median number of total coliform organisms does not exceed two hundred thirty (230) per one hundred (100) milliliters, not to exceed two thousand three hundred (2300) per one hundred (100) milliliters in any confirmed sample, as determined from the bacteriological results of the last three (3) days for which analyses have been completed. For Class D effluent, analysis shall be based on monthly sampling during periods of application. The point of compliance for Class D effluent for total coliform shall be at any point in the system following final treatment and disinfection contact time. Animals shall not be grazed on land where Class D municipal wastewater is applied, and animals shall not be fed harvested vegetation irrigated in this manner within two (2) weeks of application. (4-11-06)
- **e.** Class E effluent is municipal reclaimed wastewater that is used to irrigate forested sites where public access is restricted and the municipal wastewater shall be of at least primary effluent quality. Animals shall not be grazed on land where Class E municipal wastewater is applied, and animals shall not be fed harvested vegetation irrigated in this manner within four (4) weeks of application. (4-11-06)
- **08. Direct Use of Municipal Reclaimed Wastewater -- Classification Table**. The following table further describes the requirements for direct use of municipal reclaimed wastewater outlined in Subsection 600.07.

Classification Table					
Classification	Class A	Class B	Class C	Class D	Class E
Treatment	This is a partial list - see Section 601 for more detail: Oxidized, clarified, and coagulated, with filtration approval requirements or treated by an equivalent process, plus nutrient removal requirements, turbidity limits requirements, adequately disinfected and tested.	Oxidized, coagulated, clarified, and filtered, or treated by an equivalent process, turbidity limits requirements, and adequately disinfected and tested.	Oxidized and adequately disinfected	Oxidized and adequately disinfected	At least primary effluent quality
Disinfection	Total coliform organisms does not exceed two and two-tenths (2.2) per one hundred (100) milliliters	Total coliform organisms does not exceed two and two-tenths (2.2) per one hundred (100) milliliters	Total coliform organisms does not exceed twenty three (23) per one hundred (100) milliliters	Total coliform organisms does not exceed two hundred thirty (230) per one hundred (100) milliliters	Total coliform organisms up to "too numerous to count"

Classification Table					
Classification	Class A	Class B	Class C	Class D	Class E
Uses	May be used for residential irrigation at individual homes,; ground water recharge using surface spreading, seepage ponds, or other unlined surface water features,; ground water recharge using subsurface distribution; fire suppression from dedicated, marked hydrants; dust suppression at construction sites; toilet flushing at industrial and commercial sites; or Class B, C, D, or E uses. Other requirements apply for ground water uses. See Subsection 600.07.a.	May contact any edible portion of raw food crops; or is may be used to irrigate golf courses, parks, playgrounds, schoolyards; may be used for toilet flushing at industrial and commercial sites; or Class C, D, or E uses. See Subsection 600.07.b.	May be used to irrigate orchards and vineyards during the fruiting season, if no fruit harvested for raw use comes in contact with the irrigation water or ground, or will only contact the unedible portion of raw food crops; or is may be used to irrigate cemeteries; or roadside vegetation; may be used for toilet flushing at industrial and commercial sites; or Class D or E uses. See Subsection 600.07.c.	May be used to irrigate fodder, seed, or processed food crops; or Class E uses. See Subsection 600.07.d.	May be used to irrigate forested sites. See Subsection 600.07.e.
Access Restriction	Irrigated during periods of non-use.	Irrigated during periods of non-use by the public.	Irrigated during periods of non-use by the public.	Public access restricted.	Public access restricted.
Signing and Posting	See Subsection 601.02	Site specific - See Idaho Guidance for The Reclamation and Reuse of Municipal and Industrial Wastewater	Site specific - See Idaho Guidance for The Reclamation and Reuse of Municipal and Industrial Wastewater	Site specific - See Idaho Guidance for The Reclamation and Reuse of Municipal and Industrial Wastewater	Site specific - See Idaho Guidance for The Reclamation and Reuse of Municipal and Industrial Wastewater

Classification Table					
Classification	Class A	Class B	Class C	Class D	Class E
Buffer Distances	No effluent is allowed to be applied to surface waters in those circumstances when an NPDES Permit is required. One hundred (100) feet minimum to drinking water wells for sprinkler or furrow irrigation.	Site specific - See Idaho Guidance for The Reclamation and Reuse of Municipal and Industrial Wastewater. No effluent is allowed to be applied to surface waters in those circumstances when an NPDES Permit is required.	Site specific - See Idaho Guidance for The Reclamation and Reuse of Municipal and Industrial Wastewater. No effluent is allowed to be applied to surface waters in those circumstances when an NPDES Permit is required.	Site specific - See Idaho Guidance for The Reclamation and Reuse of Municipal and Industrial Wastewater. No effluent is allowed to be applied to surface waters in those circumstances when an NPDES Permit is required.	1000 ft. to inhabited dwellings and areas accessible to the public. No effluent is allowed to be applied to surface waters in those circumstances when an NPDES Permit is required.
Grazing	Grazing allowed only with approved grazing management plan.	Grazing allowed only with approved grazing management plan.	Grazing allowed only with approved grazing management plan.	Grazing not allowed.	Grazing not allowed.

(4-11-06)(_____

601. CLASS A EFFLUENT MUNICIPAL RECLAIMED WASTEWATER -- ADDITIONAL REQUIREMENTS.

- Municipal reclaimed wastewater systems or major upgrades to Class A effluent municipal reclaimed wastewater systems shall be submitted to the Department with the application and must be approved by the Department prior to permit issuance. The engineering report shall include, but not be limited to, the following items as applicable: purpose; approach; development of alternatives; technical, financial, managerial, and legal issues; emergency response and security; operation and maintenance; consideration of alternatives for disposal of unanticipated excess effluent that does not meet Class specifications; pilot testing; client use issues; potential markets for reclaimed wastewater; potential sources of wastewater; public involvement and perception; targeted markets for reclaimed wastewater; allocation of reclaimed wastewater; preliminary investigations; staff development; treatment system upgrades to meet Class A requirements; distribution system development and schedule; new development infrastructure; reservoir or booster capacity; water balance calculations; costs; applicable regulations; and potential funding sources. This engineering report shall be stamped, dated and signed in accordance with Idaho Board of Registration of Professional Engineers and Professional Land Surveyors, IDAPA 10.01.02, "Rules of Professional Responsibility".
- **02. Distribution System Requirements.** Class A distribution systems and the continued distribution systems of all of its customers shall have specific requirements including, but not limited to: (4-6-05)
 - **a.** Any person or agency that is planning to construct all or part of the distribution system must obtain

a plan and specification approval from the Department prior to beginning construction. Where Class A effluent is to be provided by pressure pipeline, the following applicable standards shall be used as guidance: the current edition of "Recommended Standards for Wastewater Facilities - Great Lakes-Upper Mississippi River Board of State Sanitary Engineers," the "AWWA Manual M24" Chapter 4 for dual water systems, and the current edition of "Idaho Standards for Public Works Construction". The above guidance documents shall be used for all new systems constructed after April 1, 2005. Requirements for irrigation systems proposed for conversion from use of non-Class A effluent water to use with Class A effluent will be considered on a case-by-case basis considering protection of public health and the environment. (4-6-05)

b. Distribution Lines. (4-6-05)

i. Minimum Separation. (4-6-05)

- (1) Horizontal Separation. Class A effluent distribution mains parallel to potable (culinary) water mains shall be installed in accordance with IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems," Subsection 550.06 542.07. Class A effluent distribution mains parallel to sanitary sewer mains shall be installed at least five (5) feet horizontally from the sanitary sewer main if the sanitary sewer main is located above the Class A effluent main, and three (3) feet horizontally from the sanitary sewer main if the sanitary sewer main is located below the Class A effluent main.
- Vertical Separation. At crossings of Class A effluent distribution mains with potable water mains and sanitary sewer mains, the order of the mains from lowest in elevation to highest should be: sanitary sewer main, Class A effluent main, and potable water main. A minimum of eighteen (18) inches vertical separation between each of these utilities shall be provided as measured from outside of pipe to outside of pipe. The crossings shall be arranged so that the Class A effluent main joints will be equidistant and as far as possible from the <u>potable</u> water main joints and the <u>sanitary</u> sewer main joints. If the Class A effluent water main must cross above the potable water main, the vertical separation shall be a minimum eighteen (18) inches, the Class A effluent main shall be supported to prevent settling, and the Class A effluent main shall be encased in a continuous pipe sleeve to a distance on each side of the crossing equal to ten (10) feet. If the Class A effluent main must cross below the sanitary sewer main, the vertical separation shall be a minimum eighteen (18) inches and the Class A effluent main shall be encased in a continuous pipe sleeve to a distance on each side of the crossing equal to ten (10) feet.

 (4-6-05)(
- (3) Special Provisions. Where the horizontal and/or vertical separation as required above cannot be maintained, special construction requirements shall be provided in accordance with requirements in IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems," Subsection 550.06 542, for protection of potable water mains.

(4-6-05)(

ii. Class A Effluent Pipe Identification.

- (4-6-05)
- (1) General. All new buried pipe, including service lines, valves, and other appurtenances, shall be colored purple, Pantone 512 or equivalent. If fading or discoloration of the purple pipe is experienced during construction, identification tape or locating wire along the pipe is required. Label piping every ten (10) feet "Caution: Reclaimed Wastewater Do Not Drink".
- (2) Identification Tape. If identification tape is installed along with the purple pipe, it shall be prepared with white or black printing on a purple field, color Pantone 512 or equivalent, having the words, "Caution: Reclaimed Wastewater Do Not Drink". The overall width of the tape shall be at least three (3) inches. Identification tape shall be installed eighteen (18) inches above the transmission pipe longitudinally, shall be centered over the pipe, and shall run continuously along the length of the pipe.

 (4-6-05)(____)
- iii. Conversion of Existing Drinking Water or Irrigation Water Lines. Existing water lines that are being converted to use with Class A effluent or a combination of Class A effluent and irrigation water shall first be accurately located and comply with leak test standards in accordance with IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems," Subsection 550.06 542, and in coordination with the Department. The pipeline must be physically disconnected from any potable water lines and brought into compliance with current state cross connection rules and requirements (IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems," Subsection 550.07 543), and must meet minimum separation requirements set forth in Subsection 601.02.b. of these rules. If the existing lines

meet approval of the water supplier and the Department based upon the requirements set forth in <u>Subsection 601.02.b.iii. of</u> these rules, the lines shall be approved for Class A effluent distribution. If regulatory compliance of the system (accurate location, <u>pressure testing</u>, and verification of no cross connections) cannot be verified with record drawings, <u>testing</u>, televising, or otherwise, the lines shall be uncovered, inspected, and identified <u>or otherwise verified to the Department's satisfaction</u> prior to use. All accessible portions of the system must be retrofitted to meet the requirements of these rules. After conversion of the water or irrigation line to a <u>Class A</u> wastewater effluent line, the lines shall be marked as stated in Subsection 601.02.b.ii.(2) of these rules.

- iv. Valve Boxes and Other Surface Identification. All valves shall have locking valve covers that are non-interchangeable with potable water valve covers, and shall have an inscription cast on the top surface stating "Reclaimed Wastewater". Valve boxes shall meet the requirements of IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems," Subsection 550.06 542. All above ground pipes and pumps shall be consistently color coded (purple, Pantone 512) and marked to differentiate Class A effluent facilities from potable water facilities.

 (4-11-06)(
- v. Blow-off Assemblies. If either an in-line type or end-of-line type blow-off or drain assembly is installed in the system, a plan for proposed discharge or runoff locations shall be submitted to the Department for review and approval. (4-6-05)
- **c.** Storage. If storage or impoundment of Class A effluent is provided, the following requirements apply: (4-6-05)
 - i. Fencing. No fencing is required by these rules, but may be required by local laws or ordinances.
 (4-6-05)
- ii. Identification. All storage facilities shall be identified by signs prepared according to the requirements of Subsection 601.02.e.v. of these rules. Signs shall be posted on the surrounding fence at minimum five hundred (500) foot intervals and at the entrance of each facility. If there is no fence, signs shall be located at a minimum on each side of the facility or at minimum two hundred fifty (250) foot intervals or at all accessible points.

 (4-6-05)
- iii. For systems supplying irrigation water for residential lawn irrigation, minimum storage requirements shall include sufficient volume for daily use patterns, precipitation events, etc., and an alternate disposal point during non-irrigation season. (4-6-05)
 - **d.** Pumping Facilities. (4-6-05)
- i. Marking. All exposed and above ground piping, risers, fittings, pumps, valves, etc., shall be painted purple, Pantone 512. In addition, all piping shall be identified using an accepted means of labeling reading "Warning: Reclaimed Wastewater Do Not Drink". In a fenced pump station area, signs shall be posted on the fence on all sides.

 (4-6-05)
- ii. Seal Water. Any potable water used as seal water for reclaimed water pump seals shall be protected from backflow with a Department approved backflow prevention device or air gap. (4-6-05)
 - e. Other Requirements. (4-6-05)
- i. Backflow Protection. In no case shall a direct connection be made between the potable and Class A effluent system. If it is necessary to put potable water into the Class A effluent distribution system, a Department approved reduced pressure principal device or air gap must be provided to protect the potable water system. (4-6-05)
- ii. Drinking fountains, picnic tables, food establishments, and other public eating facilities shall be placed out of any spray irrigation area in which Class A effluent is used, or shall be otherwise protected from contact with the Class A effluent. Exterior drinking fountains, picnic tables, food establishments, and other public eating facilities shall be shown and called out on the construction plans. If no exterior drinking fountains, picnic tables, food establishments, or other public eating facilities are present in the design area, then it shall be specifically stated on the plans that none are to exist.

 (4-6-05)

Equipment and Facilities. Any equipment or facilities such as tanks, temporary piping or valves, and portable pumps that have been or may be used with Class A effluent shall not be used with potable water or sewage. Any equipment or facilities such as tanks, temporary piping or valves, and portable pumps that have been or may be used with sewage shall not be used with Class A effluent or potable water. Warning Labels. Warning labels shall be installed on designated facilities such as, but not limited to, controller panels and washdown or blow-off hydrants on water trucks, hose bibs, and temporary construction services. The labels shall read, "Warning: Reclaimed Wastewater - Do Not Drink". Warning signs. Where reclaimed water is stored or impounded, or used for irrigation in public areas, warning signs shall be installed and contain, at a minimum, one (1) inch purple letters (Pantone 512 or equivalent) on a white or other high contrast background notifying the public that the water is unsafe to drink. Signs may also have a purple background with white or other high contrast lettering. Warning signs and labels shall read, "Warning: Reclaimed Wastewater - Do Not Drink". The signs shall include the international symbol for Do Not Drink. (4-6-05)03. Other Permits Addressed as Necessary. The following other permits may be necessary for a particular facility but are not regulated under these rules: (4-6-05)NPDES permits from the Environmental Protection Agency for surface water discharge. (4-6-05) a. b. Injection well permits from Idaho Department of Water Resources. (4-6-05)<u>04.</u> Filtration Technology. Filtration Technology Approval Acceptance Requirements. All Class A effluent projects in Idaho *04*<u>a</u>. must have written approval acceptance from the Department for their proposed filtration technology prior to submitting plans and specifications for approval. Except as provided in Subsections 601.04.b.i and 601.04.b.ii., the following approaches are methods by which this written approval acceptance may be obtained from the Department. Consultants and vendors shall submit written requests with accompanying product information to the Department's State Office Wastewater Program. (4-6-05)(Department approval acceptance based on previous similar projects in Idaho. ai. National approval by National Reuse Association, Water Environment Federation Research *b*ii. Foundation, NSF International, or other organization approved accepted by the Department. (4-6-05)(The State of California Department of Health Services Treatment Technology Report for Recycled Water, http://www.dhs.ca.gov/ps/ddwem/publications/waterrecycling/treatmenttechnology.pdf. (4-6-05)div. Other methods approved accepted by the Department, including pilot testing. (4-11-06)(Filter Loading, Coagulation, and Acceptance Requirements. <u>b.</u> For mono, dual or mixed media gravity or pressure filtration systems, influent shall be coagulated, clarified and passed through an undisturbed bed of soils or filter media at a rate not to exceed five (5) gallons per minute per square foot. For traveling bridge automatic backwash filters, influent shall be coagulated, clarified and passed through an undisturbed bed of soils or filter media at a rate not to exceed two (2) gallons per minute per square foot. Coagulation may be waived if all of following are met: the filter effluent does not exceed two (2) NTU, the filter influent is continuously measured, the filter influent turbidity does not exceed five (5) NTU, and automatically activated chemical addition or diversion facilities are provided in the event filter effluent turbidity exceeds five (5)

filtration processes under these rules.

NTU.

<u>ii.</u>

Gravity or pressure filters as described in Subsection 601.04.b.i. are recognized as being acceptable

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	Other granular media filters that have a continuous backwash feature, pulsed bed feature, or other ne determination of the Department, does not comply with Subsection 601.04.b.i.; membrane filters; just obtain acceptance in accordance with Subsection 601.04.a.
systems, based o	Nutrient Removal Requirements . Total nitrogen at the point of compliance shall not exceed ten round water recharge systems, and thirty (30) mg/L for residential irrigation and other non-recharge in a monthly arithmethic mean as determined from weekly composite sampling. These limits may be rending on the results of any applicable nutrient-pathogen studies that may be required. (4-11-06)
06.	Turbidity Limits and Monitoring Requirements and Disinfection Requirements.
a. train <u>after filtrati</u>	One (1) in-line, continuously monitoring, recording turbidimeter is required for each treatment on and prior to disinfection.
(2) NTU, and tu turbidity standar mean of all daily	Class A effluent shall meet the following turbidity limits. For systems utilizing sand or other or cloth media, the daily arithmetic mean of all daily measurements of turbidity shall not exceed two arbidity shall not exceed five (5) NTU at any time. Turbidity shall be measured continuously. The red shall be met prior to disinfection. For systems utilizing membrane filtration, the daily arithmetic measurements of turbidity shall not exceed zero point two (0.2) NTU, and turbidity shall not exceed 0.5) NTU at any time.
<u>c.</u>	Class A effluent shall be disinfected by either:
i. fifty (450) millig of not less than r	A chlorine disinfection process that provides a concentration/contact time (CT) of four hundred and gram-minutes per liter (mg-min/L) measured at the end of the contact time with a modal contact time innety (90) minutes based on peak day dry weather flow; or ()
	A disinfection process that, when combined with filtration, has been demonstrated to achieve 5-log virus. Acceptance by the State of California Department of Health Services as published in their tology Report for Recycled Water is one method to constitute such a demonstration.
07.	Reliability and Redundancy Requirements. (4-6-05)
<u>a.</u>	Redundant Treatment Capabilities. ()
# <u>i</u> . and <u>Class A trea</u>	Class A treatment systems shall have redundant treatment capabilities able to treat peak <u>day</u> flow, tment systems shall also provide for:
<u>(1)</u>	An alternative disposal option; or ()
<u>(2)</u>	Diversion to adequate lined storage capable of storing seven (7) days of effluent; or ()
(3)	Equivalent back-up system. ()
disinfection syst Peak flow is defi for the season in this basis is twic exceeding more down for inspect	
b. be required.	Redundant facilities, including, but not limited to, monitoring equipment and treatment trains shall (4-6-05)

- **c.** Standby Power sufficient to maintain all treatment and distribution works shall be required for the Class A effluent use. An alternative to this is to provide standby power sufficient for basic treatment and for automatic by-pass of filtration directly to an alternative disposal option or diversion to lined storage. (4-6-05)
- **d.** Standby treatment filter units in fully operable condition capable of treating peak flow, with the largest filter unit out of service, shall be plumbed and wired in place for immediate use. Peak flow is defined for the purpose of this rule to mean the peak day flow of the plant anticipated for the season in which Class A effluent is being produced. An alternative to this is automatic by-pass of filtration directly to an alternative disposal option or diversion to lined storage.

 (4-11-06)(_____)

08. Other Class A Effluent Requirements.

(4-6-05)

- **a.** Minimum treatment system size shall be ten thousand (10,000) gallons per day of wastewater flow being treated. (4-11-06)
- **b.** Five (5) Day Biochemical Oxygen Demand (BOD5) shall not exceed five (5) mg/L shall not exceed five (5) mg/L for ground water recharge systems, and ten (10) mg/L each for residential irrigation and other non-recharge systems, based on a monthly arithmethic mean as determined from weekly composite sampling.

 $\frac{(4-11-06)}{(1-11-06)}$

- **c.** The pH as determined by daily grab samples or continuous monitoring shall be between six point zero (6.0) and nine point zero (9.0) inclusive. (4-11-06)
- Residual Chlorine at the point of compliance shall be not less than one (1) mg/L free chlorine after a contact time of thirty (30) minutes at peak flow. If an alternate disinfection process is used, it must be demonstrated to the satisfaction of the Department that the alternative process is comparable to that achieved by chlorination with a one (1) mg/L free chlorine residual after thirty (30) minutes contact time.
- ed. For any type of ground water recharge system, the Class A effluent must also meet ground water quality standards per IDAPA 58.01.11, "Ground Water Quality Rule," at the point of compliance, and comply with the remaining sections of the "Ground Water Quality Rule". For these types of ground water recharge systems utilizing Class A effluent municipal reclaimed wastewater, the applicant shall propose to the Department for review and approval, the applicable testing requirements for the effluent as it relates to the primary and secondary ground water standards, as well as background ground water quality. Ground water recharge site locations shall be a minimum of one thousand (1000) feet from any down gradient drinking water extraction well and shall also provide for a minimum of six (6) months time of travel in the aquifer prior to withdrawal. The minimum requirements for site location and aquifer storage time may also be greater depending on any source water assessment zone studies for public drinking water wells in the area. The owners of these systems must control the ownership of this down gradient area to prohibit future wells from being drilled in the impact zone of the ground water recharge system. The Idaho Department of Water Resources requires additional permits for ground water injection wells. (4-11-06)
- **fe.** A filter to waste operational criteria is required for all Class A effluent filtration facilities for each time a filter starts up. The filter will automatically filter to waste until the effluent meets the required turbidity standard. (4-6-05)
- **gf.** Additional information in the form of reports by qualified soil scientists, professional geologists, professional engineers, or other qualified individuals relating to environmental assessments, nutrient management plans, or water rights issues shall be submitted to the Department at the pre-application conference or with the application and must be approved by the Department prior to permit issuance. (4-6-05)
- Ag. Requirements for Class A effluent distribution system operators. All operators of Class A effluent distribution systems, including operators of distribution systems that utilize a combination of Class A effluent and other irrigation waters, operators of the distribution system from the wastewater treatment plant to the point of compliance or point of use or point of sale, as applicable, and those operators that are employed by buyers of the Class A effluent for subsequent use, including home occupants, shall be required to sign a utility user agreement provided by the utility providing the Class A effluent that states that the user acknowledges that the user understands the origin of the effluent and the concept of agronomic rate for applying the Class A effluent. Contracts for sale of

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Class A effluent for subsequent use shall also include these requirements. Individual homeowners are allowed to operate or maintain Class A effluent distribution systems. Providers of the Class A effluent shall undertake a public education program within its service area to teach potential customers the benefits and responsibilities of using Class A effluent

(4-11-06)(

<u>h.</u> Requirements for mixing Class A effluent with other irrigation waters. Mixing Class A effluent with other irrigation waters may be conducted in a pipe to pipe manner if both the other irrigation water source and the Class A source are protected by Department approved backflow devices. Class A effluent may be mixed with other irrigation water in an unlined pond if the Class A effluent is permitted for aquifer recharge. Class A effluent that is permitted for irrigation only and not aquifer recharge may be mixed with other irrigation water only in a lined pond. Irrigation from these ponds may then be accomplished as if it were all Class A effluent.

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